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STATE OF MONTANA. San.

Country of Petroleman.

Filed July 17 1363

at 11:15 ciclock a. 24.

Sonny L. Denyl.

Country frame.

Approved	Stock	Form-State	Publishing	Co	Helena.	Montana38687

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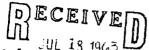
T. 15N R. 29E

DUPLICATE

County...Petroleum.....

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER



Declaration of Vested Groundwater Rights

	Cont	inenta	a1 O:	il Co	mpanv	1		of Bank Electric Bldg. Lewistown
		(1)	Vame	of A	propr	ator)		(Address) (Town)
	County	of	erg	na			•	State of Montana
	have ar	propri	ated	groun	dwate	accord	ıng	to the Montana laws in effect prior to January 1, 1962, as follows
			N	•				
-			-			-	2.	The beneficial use on which the claim is based. Supply water for Cat Greek waterflood
-						- - E	3.	Date or approximate date of earliest beneficial use; and how continuous the use has beenNovember1959 - continuous
-						 	4.	The amount of groundwater claimed (in miner's inches or gallon per minute)96 gal./min.
			X]	5.	If used for irrigation, give the acreage and description of the land to which water has been applied and name of the owner thereo
di id	4SE cate po place small	int of	app e, if	ropria poss	tion ible.		6.	The means of withdrawing such water from the ground and the
16	.							location of each well or other means of withdrawal
								of the construction of the well, wells, or other works for with 2,1959,completed.August15,1959
.								ek Sand 1700 to 1794
								ze and depth of each well or the general specifications of any other
	works f 8.5/1	or the	with	drawa I-55	l of gr	roundwa g. at .1:	ter. 7 05	. with 470 sacks regular cement. Completed open
١.	The est	imated	amo	unt of	grou	adwater	wi	chdrawn each year1,204,500.bbls./year
								drilling of each well if available
		1551!	161	5!	2ndC	atCre	k.	
				. •	e a ain	ilar nat	ure	as may be useful in carrying out the policy of this act, including
	Such of reference	e to bo	ok a	nd pa	ge of a	ny coun	ty 1	ecord
2.	referenc	e to bo	ok a	nd pa	ge of a	ny coun	t y 1	record

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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176 22033 STATE OF MONTANA, | S. County of Petrolema. | S. JUL 17 1963 10

14.

~DOC# 15622

MONTANA WATER RESOURCES BOARD Water Resources Survey

NOTICE OF APPROPRIATION

	NOTICE OF THE STATE OF THE STAT
1.	County PETROLEUM Book 77 Page 27B Record MISC.
2.	Name of Appropriator CONTINENTAL OIL CO.
3.	Address 20 DAYS PRIOR TO Date Appropriated JUNE 7, 1957 UP TO PER DAY Amount Appropriated, Miners Inches 19,000 BARRELS Cubic Feet, Per Sec.
4	Name of Stream THIRD CAT CREEK SAND WELL # 14
2.	Tributary of Basin
_	
•	Purpose, Irrigation ☐ Domestic ☐ Stock ☐ Other ☐ ★
6.	Land Description of Intended Place of Use: Quarter Sec. Twp. Rge. Quarter Sec. Twp. Rge.
	11,12
	13 \$ 14 15N 29E
7.	Point of Diversion: WELL # 14 LOCATED 1100 FEL & 1640 FML
	Quarter of Section Section 19 Township 1511 Range 29 E
	Bank of Stream Left [Right [(Looking Downstream.)
8.	Size of Ditch.
	Bottom Width
	Direction of Flow of Ditch
0	Remarks (Present Use Status, etc.) # TO WATER FLOOD OIL PRODUCING
<i>3.</i>	MORIZONS OF CAT CREEK FIELD
	3" PIPE
	PLATTED BY D. F. Switch
_	CHECKED BY
٠-١	CTECKED DI

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ПП	AUG	30	1957	[J]

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STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

		WATER W	ELL LOG			
	Owner. Conti	nental Oll Co.		Address	Box 878 , Pc	inell, hyoming
	Driller			Address		
	Date Started	4- 23-24	······································	Date Com	pleted	***************************************
	Location: Sec	11 _{T.} 152	R 29E 14	secସଖ	SE	
Type of well Drille	(Dug, driven, bored		lquipment used	Cable (Churn	toola drill, rotary, oth	ner)
Water use: Domestic		Municipal	Stock		Irrigation	
Industrial	X	Drainage .	Other:	water 1	coding	
Casing: Surface	ft. to. 1.205	ft. Type	24 16	Size 8	1/4"	
Casing:	ft. to	ft. Type		Size		
Casing:	ft. to	ft. Type		Size		
Perforated or Screened	l: Ft	to ft	Ft	•	to ft	
Type of screen or perfor	ations	cle				
Static Water level, for n	on-flowing well:					feet.
Shut-in pressure, for flo	owing well:	***************************************	1b./sq. in. on:			
Pumping water level	205	feet at	30 BW/Mo.	gal	(date)	
Length of test						
Remarks: (Gravel pac	king, cementing,	packers, type of	shut-off, depth	of shut-off)		
Produced water to	be used in wa	ter flooding.	At present we	ll is upe	d to produc	e oil
and water.	•••••	••••••		***************************************	***************************************	******************************
					************************	***************************************
	•••••					•••••••
3 🗫	***************************************	(ove	er)			***************************************

	th, feet	Description of Material Drilled						
From To		Description of Matterial Drifted						
G	160	Blue shale						
1.60	165	Hosby Band						
165	43.5	Grey shale						
415	565	Blue shale						
565	620	light shale						
620	640	Dark shale						
640	690	Crey shale						
690	855	Light shale						
855	940	Cark shale						
940	960	Grey shale						
960	980	Dark shale						
980	1050	Light shale						
1050	3.080	Dark shale						
1080	1110	Grey shale						
1110	1185	Sandy shale						
1185	1195	Grey shale						
1195	1205	Dark sandy shale						
1205	1.206	Sandy shale						
1208	1242	Oil send Ottom of sand						
1242		Bottom of sand						
···		<u> </u>						
		M. 19 57 Deputy.						

Continental oil 6.

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1	EC	E I	VE	
Ш	AUG	30	1957	رلا

T 15N R 29E

County Petroleum

Petroleum 56 Lease, Well #16

STATE ENGINEER

Fetroleum 56 Lease, Well #16
MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOC

		WAI	EK WELI	LUG				
	OwnerC	ontinental	Oil Co.		. Address	: <i>8</i> 73,	Fowell,	Wyomin
	Driller				. Address			••••••
	Date Started	4-12-49	•••••••••••	••••••	. Date Comple	5-4- etea	49	
x 1	Location: Sec	<u>11</u>	15N	R29E 14 s	sec. SE SE S	SW	***************************************	······································
Type of well Drill	ed Dug, driven, bored	, or drilled)	Equip	ment used	Rotary (Churn di	rill, rotary	other)	
Water use: Domestic]	Municipal		Stock		Irrigatio	on 🗌	
Industrial [X	Drainage		Other: W	ater flood	irg		
Casing: Surface f	t. to. 1900	ft,	Туре	14 1b	Size	5 1/2	······	
Casing:fi	t. to	ft.	Туре		Size		***************************************	
Casing:f	t. to	ft.	Туре		Size	••••••		
Perforated or Screened: 1	Ft. 1780	to ft	1805	Ft		. to ft		**********
7598 CF 60760 Post perforat	ions Shot					••••••	***************	
Static Water level, for non	1-flowing well:	•				***************************************		feet.
Shut-in pressure, for flow	ing well:		11	./sq. in. on:			***************************************	
Pumping water level	L780	feet	at 1250 B	W/Mo.	•	(date) per min.		
How tested: Tank	Test.							
Length of test			••••••••••			••••••		
Remarks: (Gravel packir						_		
Water to be used for	· water floo	ding. At	present	well is pro	ducing oil	end w	eter.	
	••••••••				••••••		······································	······································
		•••••	•••••••		••••••	•	•••••••	
		••••••			•••••	••••••	••••••••	
	•••••••					••••••••	•••••••	
(i) -4920-			(nvar)					

Continental oil to County of Petrolema, sa. o'click A 1957 County Recorder. Deputy

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DECEIVE	m			County
'nĵ	ן ען			Petroleum 56 Lease, Well #11
UU AUG 3 0 1957	MONTAN	A BUREAU OF		- -
STATE ENGINE		Butte, M		ā.
SIAIL LINGINE	- L II	MACRICO M		
		WATER W	ELL LOG	
	Cov	dinamtal Oil C		Address Box 878, Powell, Wyo
	Owner	intidioat Arr A		Address
	Driller		•••	Address
		2_27_23		3-18-23
	Date Started	2-21-2)	***************************************	Date Completed 3-18-23
x	Location: Sec.	11 _{T.} 15	N R 29E	1/4 sec SE SW
Type of well	Drilled	Е	quipment used	Cable tools
	(Dug. driven, bore	d. or drilled)		(Churn drill, rotary, other)
Water use: Domestic		Municipal	Stock	Irrigation
Industrial	X	Drainage .	Other:	Water flooding
Casing: Surface	ft. to 1476	ft. Type	-	Size 6 5/8 ⁿ
asing:	ft. to	ft. Type		Size
asing:	ft. to	ft. Type		Size
erforated or Screened	: Ft	to ft	Ft	to fl
time of seveen on nerfer	ations Oper	hole		***************************************
				·
tatic Water level, for n	on-flowing well	•		fe
hut-in pressure, for flo	wing well:		lb./sq. in. on:	
	71074		60 BW/WA	(date)
		feet at	00 BH/RO.	gal, per min
Iow tested: Tar	k test			***************************************
_				
Remarks: (Gravel pac		. •		•
Water to be used	l for water f	looding. At pr	esent well is	e producing oil and water.
				•••••••••••••••••••••••••••••••••••••••

(over)

Depth, feet		Description of Matarial Dailled					
From	То	Description of Material Drilled					
_ 0	270	·Shale					
270	280	Yosby					
280	1250	Shale					
1250	1315	Sandy shale					
1315	_1345	lst Sand					
1345	1350	Sandy shale, break					
1350	1360	Sand					
1360	1385	Elue shale					
1385	1455	Red beds					
1455	1476	Sandy shale					
1476	1520	2nd Sand					
1520	1521	Dark gray shale					
1521		Total of hole					
	<u> </u>						
	<u> </u>						
· · · · · · · · · · · · · · · · · · ·							
		1 1 5 3 "					
<u> </u>		TEOF					
	1	······································					
		Petroleman County lead De					
		Deputy.					
							

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	CountyPe				
)	GEOLOGY	7			

DECEIVE MONTANA BUREAU OF MINES AND Butte, Montana

STATE ENGINEER

	WAT	ER WELL LOG	**	•		
	Owner Continental	Oil Go.	Address	Box 878,	Powell,	Wyomin
	Driller	*.	Address	·····		
	Date Started 1-29-	23	Date Con	npleted	16-23	•••••
*	Location: Sec. 11	15N R 29E 1/2	secSE	SW		
Type of well	Drilled (Dug, driven, bored, or drilled)	Equipment used	Ca)	n drill, rotary, o	ther)	••••••
Water use: Domestic	Municipal	Stock		Irrigation		
Industrial	X Drainage	Other:	Water 11	ooding		
Casing: Surface	ft. to. 1485 ft.	Туре	Size	6 5/8"	••••••	
Casing:	.ft. toft.	Туре				
Casing:	ft. toft.	Туре	Size			*******
Perforated or Screened	: Ft to ft.	Ft		to ft	**********	
Type of screen or perfor	ations. Open hole	••••••			***********	
	on-flowing well:					feet.
Shut-in pressure, for flo	owing well:	lb./sq. in. on:.		(date)		
Pumping water level	1485 fee	t at 30 BW/No.	ga		***************************************	
How tested:	Pank test					
Length of test		••••••		•••••		
	king, cementing, packers, to				nd water	r.
*****	***************************************		•••••		***********	
	······			****************	••••••	
			,	•••••	•••••	
0		(over)				

Log of Well								
Depth, feet		Description of Material Drilled						
From	То	Description of Masterial Diffied						
0	295	Shale						
295	300	Мовьу						
300	1195	Shale						
1195	1310	Sandy shale						
1310	1315	Sand						
1315	1330	Pay Sand						
1330	1355	Sand						
1355	1415	Shale, blue sandy						
1415	1425	Shale						
1425	1445	Red Beds						
1445	1485	Blue shale						
1485	1500	Pay Sand						
1500	1510	Sand						
1510	1516	Broken sand						
1516		Total of hole						
		, , , , , , , , , , , , , , , , , , ,						
		1						
	1	Someth of the Committee						
	<u>!</u> ;							
		County Mee						
		County Accorder. Deputy						
_ 	 	Deputy.						
		1 2 10						
	!	1						

Continental oil to.

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	T. 15N R 29E
BECEIVE	County Petrolem
	Petroleum 56 Lease, Well #9
AUG 30 1957 MONTANA BUREAU OF MI	
TATE ENGINEER WATER WEI	LL LOG
Owner Continental Oil Co.	Address Box 873, Fowell, Wyom
Driller	Address
	Date Completed 11-13-22
Location: Sec. 11 T. 15M	R 29B 1/4 sec. SE SW
ype of well <u>Crilled</u> <u>Equ</u>	ipment used Cable tools (Churn drill, rotary, other)
Vater use: Domestic Municipal	Stock Irrigation
Industrial X Drainage	Other: Mater flooding
asing: Surface ft to 1465 ft. Type	- Size 6 5/8*
asing:ft. Type	
asing:ft. Type	
erforated or Screened: Ft to ft to	to ft
ype of screen or perforations. Open hole	
tatic Water level, for non-flowing well:	
hut-in pressure, for flowing well:	.lb/sq. in. on:
umping water level 1465 feet at 190	
ow tested: Tank test	
ength of test	
emarks: (Gravel packing, cementing, packers, type of sk	
ater to be used for water flooding. At present	well is producing oil and water.

(over)

Description of Material Drilled

Depth, feet

. To

From

Ç,	322	Dark shale
322	326	Mosby
3:26	1277	Gray shale
12/7	1309	First oil send
13(19	1314	Variegated shale
131,	1339	Broken send, no oil
1339	1465	Red beds and shale
1465	1503	Second oil sand
1503	<u> </u>	Total of hole
•		
	<u>i</u>	
	 	
		†
		Find 2
		6 8.5
		3

							T	15N F	291	<u> </u>	
DECE N _{AUG} 30	l l] мог	NTANA		U OF M utte, Mont	INES AND	Petrole	Petrol num 56 Le GY			
TATE EN	GINE	ER		WAT	ER WEI	L LOG					
		Owner	Con	tinental	011 %)	Addr	ess. Box &	78, Pov	roll,	Wyomin
		Driller					Addr	ess		••••	
	×	Date St	arted	7-29-22		•••••	Date	Completed	8-J4	-22	
		Location	n: Sec	u ı	. 15N	R 29E	¼ sec	se sw		·····	••••••
Type of well	Drill	ed.	en. bored.	or drilled)	Equ	ipment used	C	able too.	Ls otary, other	r)	••••••
Water use: I	Domestic		• • •	<i>d</i> unicipal		Stoc			gation		
Ir	ndustrial	X		Drainage	П	Other:	Water	Loodin	3	•••••	••••
Casing: Su				•		to				************	
Casing:	***************************************	ft. to	·	1t.	Туре	\$-00 <i>000</i>	Size	2		***********	•
Casing:		ft. to	************	ft.	Туре	••••••	Size	e	•••••••	•••••••	••••••
Perforated or	Screened	l: Ft		to ft		Ft	***************************************	to	ft	************	********
Type of screen	or perfo	rations		open hol	3	***********************	••,	*************	***************	•	•••••
Static Water l	evel, for n	on-flowin	g well:					*****************		••••••	feet.
Shut-in pressu	ure, for flo	owing well	i :			lb./sq. in. on	•			•	
Pumping wate	ar level	147	70	feet	. at 60	Ba/No.		(date	•		
How tested:		Tank tos	rt.								
Length of test.		************				••••••••		*******************************	•••••		
Remarks: (G:	ravel pac	king, cem	enting,	packers, t	ype of sh	ut-off, dept	h of shut	-off)			
Mater to be	-	•		_				-	d water	•	
									•		
***************************************	*****************	****************									••••••
	·•···	••••••	************	•••••••	······································	·›,······	****************	*************	**************************************	*******	••••••
	*************	**************		••••••	,	***************************************		*************			••••••

(over)

Log of Well

Depth, feet		December of Mahamid Philled					
From	. To	Description of Material Drilled					
0	275	Dark shale					
275		Mosby Sand					
275	722	Gray shale					
722	1305	Gray shale					
1305	1331	1st oil same					
1331	1473	Variegated shale					
1473	1501	2nd oil sand					
1501	1502	Shale					
1502		Total of well					
	<u> </u>						
	<u> </u>						
	<u> </u>						
	<u> </u>	10 2 5					
	!						
	1						
		Prick A. M. Deputy Deputy					
		5 9 5 5					
		1 1/2 · . 101					
		# # # # # # # # # # # # # # # # # # #					
		31					

	15N F	29E
DECEIVED	County	
MONTANA BUREAU OF MONTANA BURE	IINES AND GEOLOGY	Re) Herr Art
WATER WE	LL LOG	
Owner Continental Oil Co.	Address Box 8	78, Powell, Wyomin
Driller	Address	
Date Started 6-9-21	Date Completed	0-20-21
Location; Sec. 11 T 15N	R 29E ¼ sec. SE SW	·····
Type of well Drilled Eq	uinment used Cable tools	
Type of well Drilled Eq. (Dug. driven, bored, or drilled)	(Churn drill, r	rotary, other)
Water use: Domestic Municipal	Stock Irri	gation
Industrial X Drainage	Other: Mater flooding	g
Casing: Surface ft. to 1526 ft. Type	- Size 8 1/	4"
Casing:ft. Type	Size	***************************************
Casing:ft. Type	Size	
Perforated or Screened: Ft to ft to	Ft to :	ft
Type of screen or perforations		
Static Water level, for non-flowing well:		
Shut-in pressure, for flowing well:	lb./sq. in. on:(date	
Pumping water level 1526 feet at 20		•
How tested: Tank test		
Length of test		••••••
Remarks: (Gravel packing, cementing, packers, type of si	hut-off, depth of shut-off)	
ater to be used for water flooding. At present we	Il is producing oil and wa	ter.
	***************************************	•
	***************************************	***************************************
- ,		

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DECEIVE	l l			CountyP	etroleum		
M AUG 3 0 1957	[]]			PetroLeum	56 Lease,	Well #3	
		BUREAU OF Butte, Me		GEOLOGY	•		
STATE ENGINE	:EK	TAY A (INTOIN TAY					
	:	WATER W	ELL LOG				
	Owner Contine	ental Oil Co.	*************************	Address	Box 678,	, Powell,	Wyoming
	Driller	••••••••••••		Address			
x	Date Started	5-9-21		Date Con	npleted	5-27-21	******
	Location: Sec	1 _T 15N	R 29E	¼ sec	SE SW		
Type of well	rilled	Edrilled)	nuinment used	Cable	tools		
Type or west	(Dug, driven, bored, or	drilled)	darbitterra grea	(Chur	n drill, rotary	, other)	
Water use: Domestic	M	unicipal 🔲	Stoc	k 🔲	Irrigati	on	
Industrial		rainage	Other:	Water floo	ding		
Surface Casing:	ft. to1324	ft. Type.		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 perfor	open hol	.e					
Static Water level, for n							
Shut-in pressure, for flo							
Situs-in pressure, for the					(date)		
Pumping water level		feet at	190 BW/Mo.	gs	al. per min	•••••••	
Ter How tested:	ik test	•••••				••••••	
Length of test						•••••	
Remarks: (Gravel pac	ring gementing n	ockars tune of	shut_off dent	h of shut-off	? \		
Produced water to b	· · · · · · · · · · · · · · · · · · ·		, -		•	47 00.2	h
.,				HOOT TO DE	oducing o	TT GUO MEI	igr.
***************************************			***************************************	••••••	******************	•••••••	•••••
		••••••	·····	••••••		•••••	
				••••••		••••••	

(over)

Den	th, feet		
From	. To	Description of Material Drilled	
0	i –	Shale	
	295		
295	1.004	Mosby	
295	1328	Shale	
1328	1338	Sand	
1338	1346	Pay Sand	
1346	1369	Send	
1369		Total of hole	
	<u> </u>		
	Ì		
	1		
		•	
	 		
·	-		
	_ 		
			>
	+	Chunty Chunty	ξ
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		County R	,
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Ш	AUG	30	1957	رسا

County Petroleum
Petroleum 56 Lease, Well #2

MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

STATE ENGINEER

Min Liverius		ER WELL LOG		
	Owner Continental Oil	Co.	Address Box 878, Pow	ell, Wyomin
	Driller		. Address	
x	Date Started 1-31-21		. Date Completed 3-3-	21.
	Location: Sec. 11 T.	15N R 29E 1/4	sec. SE SW	
Type of well	Orilled (Dug, driven, bored, or drilled)	Equipment used	Cable Tool	. S
Water use: Domestic	r—1	Stock	· ·	
Industrial	Y Drainage	Other:	Water flooding	
Casing: Surface	.ft. to	Туре	Size 8 1/4 ⁿ	******************************
Casing:	ft. toft.	Туре	Size	
Casing:	ft. toft.	Туре	Size	
Perforated or Screened	1: Ft to ft	Ft	to ft	
Type of screen or perfo	rations. Open hole			
Static Water level, for r	non-flowing well:			feet.
Shut-in pressure, for fl	owing well:	lb./sq. in. on:		
Pumping water level	1284 feet	at 27 BW/Mo.	(date) gal. per min	
	k test			
Length of test	······································			······
Remarks: (Gravel page	king, cementing, packers, t	pe of shut-off, depth of	f shut-off)	
Produced water to	be used for water flood	ing. At present we	ll is producing oil a	nd water.
			***************************************	••••••
				•,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
(f) -46224		(over)		

Depi	h, feet	Description of Material Duilland
From	· To	Description of Material Drilled
0	270	Shale
270	1284	Shale
1284	1300	Sand
1300	1309	Sand
1309	1326	Sand
W.,,,,,		
	<u> </u>	
	<u> </u>	
	 	
		Sing Co.
		Filed 9:00
	<u> </u>	1 2 = -
		Count
	 	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Continental oil to.

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T. 15N	R	29E	
County P			

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY

WATER WELL LOG

				*				
c	i i i	Owner	Continental	011 60.		Address.	Box 878, Po	owell, W
		Driller		•••••••		Address.	·····	
		Date Started	1-11-2	1		Date Co	npleted 1-28	-21
.		Location: Se	c13				NW	
pe of well.	••••••	Drilled (Dug. driven, bo	ed. or drilled)	Equi	oment used	Cable to	ol rn drill, rotary, oth	er)
ater use:	Domestic		Municipal		Stock		Irrigation	
:	Industrial	X	Drainage		Other:			·····
sing: Sur	face	.ft. to	1ft.	Туре		Size	10 ^s	***************************************
sing:		ft. to	ft.	Туре		Size	***************************************	***************************************
sing:		ft. to	ft.	Туре		Size		
erforated o	r Screened	l: Ft	to ft.		Ft		to ft	
pe of scree	n or perfoi	ations Open	hole				***************************************	
_								
	·						(date)	
ımping wat	ter le~el	1301	fee	t at 13,500	BW/Mo.	g	al. ; ir min	
w tested:	:							
	3.							

•		king, cementir					•	at an
Maren CO	ne daed	LOF MICEL	moornig.	We breser	to wall to	րոսանո	ng oil and w	3041.º
			***************************************		•••••			•
		···	***************************************	· • • • • • • • • • • • • • • • • • • •	·····	•••••••••••••••••••••••••••••••••••••••		******************************
			***************************************				·	
				(over)				

	th, feet	Description of Material Drilled
From	То	Description of statement Direct
0	100	Shale
100	106	Mosby Send
106	1075	Shale
075	1149	Sandy Shale
1149	1158	lst Sand
	<u> </u>	
·		
		F 2 2
•		metta l'et cien Count
		Deputy 1957
		7

(D)	EC		¥ E 1957	n i
ШU	AUG	30	1957	زلا

100 T 15N R 29E County Petrolem Green 2 Lease, Well #2

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

WATER WELL LOG

		WALER W			
x	Owner Co	ntinental Oil Co.	Δ Α	ddress Box 878, P	owell, Wyo.
	Driller		Α	ddress	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Date Started	, 3-12-21	D	ate Completed.	j-21
	Location: Se	e 14 T 15	N R 29E 1/2 Sec	yw NB	
Type of well Dril	102	red, or drilled)	Couloment used	ble Tool	
Type or wen	(Dug. driven, Le	red, or drilled)	quipment accumum	(Charn drill, rothry, o	ther)
Water use: Domestic	. 🗆	Municipal	Stock _	Irrigation	
Industria	I	Drainage	Other: Mate	r flooding	***********
Casing: Surface		ft. Type.	20/	Size. 6 5/8*	
Casing:	ft. to	ft. Type.		Size	************
Casing:	ft. to			Size	
Perforated or Screene	ed: Ft	to ft	Ft	to ft	T1
Type of screen or perfe	orations Ope	m hole		••••••••••	· 4 · 6 · 7 · 8 · 8 · 8 · 8 · 8 · 8 · 8 · 8 · 8
Static Water level, for					
Shut-in pressure, for f	lowing well:	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	lb./sq. in. on:		
Pumping water level	1216	. 16	500 BK/No.	(date)	
		feet at		gal, per min	*******
How tested:	nk Test	**********************************	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******************************	***************************************
Length of test		,	\ <u></u>	·····	
Remarks: (Gravel pa	-	-			e cil and
mter.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		•••••••••••••••••••••••••••••••••••••••	**************************************
***************************************			••••••••••••••••••••••••••••••		
***************************************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
***************************************	••••••			***************************************	
					••••••
W		(ove	er)		

Log of Well

Dept	h, feet	December of Manager December 1
From	To ·	Description of Material Drilled
0	5	Seil
5	205	Shale
205	21.5	Mosby Sand
23.5	700	Shale, Dark
700	1145	Shale, Light
1145	1225	Light Sandy Shale
1225	1270	Serd Send
1270	1280	Sand
	İ	
	<u> </u>	
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		illa Courty
	<u> </u>	Count Count
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T	151	R	29E	
County	Petro	leum		
	2 Lease			

MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana STATE ENGINEES

		WATER V	VELL LOG		
x	Conf Owner	tinental Cil Co.		Address	, Fowell, Wyo.
	Driller		•••••	Address	
	Date Started	6-19-22		Date Completed	7-1-22
	Location: Se	c. 14 T. 15N	R 29E 1/4	secNW NE	
Type of well	Drilled (Dug. driven, bo	red, or drilled)	Equipment used	Cable Tool (Churn drill, rotar)	y, other)
Water use: Domesti		Municipal			
Industria	al X	Drainage	Other: W	iter Flooding	·····
Casing: Surface	ft. to1190	ft. Type	21.#	Size 8 1/4"	
Casing:	ft. to	ft. Type	<u></u>	Size	
Casing:				Size	
Perforated or Screen	ed: Ft1160	to ft119) Ft	to ft	***************************************
Type of screen or perf	forationsSlo	ts			***************************************
static Water level, for	r non-flowing we	il:	•••••		feet.
hut-in pressure, for :	flowing well:		lb./sq. in. on:		•••••••••••
	1190	.	30 BW/Ho.	(date) gal. per min	
_	est Tank	teet at		gai. per min	•
low tested:	•••••••				
ength of test		*******************************			***************************************
nemarks: (Gravel parents) Produced water	= -	** *		of shut-off) well is used to pr	oduce oil
and water.			•••••		***************************************

,		***************************************			***************************************
 D	••••••	(ov	er)		

Depth, feet		Description of the second Desired
From	To (Description of Material Drilled
0	0	Drift
6	90	Blus Shale
90	450	Dark Shale
450	975	Gray Shale
975	1145	Sandy Shale
1145	1210	1st Sand
1210	1218	Talc
1218	1299	Red Shale
1299	1304	Hard Shell
1304	1,338	2nd Sand
	1	
		Filed 2
		E CF
		County Res
		luck A. M. Oumly Recorder. Deputy.
	ļ	Deputty.
		* * * * * * * * * * * * * * * * * * * *
		

Continental oil Co.

6.Rm.

T 15	in	.R	29E	<i>,</i> , ,
	Petrol			
Green 2	Tasea.	Well 1	#5	

AUG 30 1957

STATE ENGINFER

STATE ENGINEER MONTANA BUREAU OF MINES AND GEOLOGY Butte, Montana

WATER WELL LOG

Owner Continental Oil Co.	Address Box 878, Powell, Myo.
Driller	Address
Date Started 8-1-22	Date Completed
Location: Sec. T. T.	i R 29E 14 sec. NW NE
Type of well	Cable Tool.
(Dug. driven, bored, or drilled)	(Churn drill, rotary, other)
Water use: Domestic Municipal	Stock Irrigation
Industrial I Drainage	Other: Water Flooding
Casing: Surface ft. to 1419 ft. Type	30# Size 6 5/8**
Casing:ft. toft. Type	Size
Casing:ft. Type	Size
Perforated or Screened: Ft to ft to	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:
Pumping water level 1419 feet at	(date)
How tested: Test Tank	
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
mater.	
	,

From	th, feet To	Description of Material Drilled					
0	165	Gray Shale					
165	168	Mosby Sand					
168	230	Dark Shale					
230	425	Gray Shale					
425	720	Dark Shale					
720	1080	Gray Shale					
1080	1248	Sandy Shale					
1248	1290	1st Sand					
1290	1298	Red & Blue Shale					
1298	1305	White Tale					
1305	1420	Red Shale					
1420	1453	2nd Sand					
1453	1454	Shale					
		·					
		Filled Co					
		THE THE					
		Ferroleum County County					
		Fencionam. Fencionam. Fencionam. Fencionam. Final Maria Maria County Recorder. Deputy.					
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Continental oil To 9.8m.

	The second second		188
	T 15N	R 29E	
DECEIVED	County Petro	leun	
	Green 2 Leas	e, Well #6	***************************************
AUG 30 1957 MONTANA BUREAU OF MINES AN	ND GEOLOGY	te de la companya de	
STATE ENGINEER Butte, Montana			
WATER WELL LOG			
Owner Continental Oil Co.	Address Bo	x 878, Powell	., Wyo.
			:
Driller			
Date Started 11-24-22	Date Comple	ted 12-14-22	
Location: Sec. 14 T. 15N R 291	E 1/4 sec. NW NE		······
Type of well	cable To	o 1	·
(Dug, driven, bored, or drilled)	(Churn dr	ill, rotary, other)	
Water use: Domestic Municipal S	tock	Irrigation	•
Industrial X Drainage Other	r: Water Floodin	5	
Casing: Surface ft. to 14041 ft. Type 20#	Size6	5/8"	
Casing:ft. toft. Type	Size	***************************************	
Casing:ft. toft. Type	Size		
Perforated or Screened: Ft to ft F			
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 1404 feet at 30 BW/			
•			
How tested: Tank Test		,	
Length of test			
Remarks: (Gravel packing, cementing, packers, type of shut-off, de Produced water to be used in water flooding. At present	nt well is used	to produce of	l and
water.	***************************************		
		·*····································	***************************************

(over)

Log of Well

Dept	h, feet	Description of Material Drilled	
From	То	Description of Material Drifted	
0	255	Blue Shale	
255	760	Dark Shale	'
760	1090	Gray Shale	
1.090	1165	Sandy Shale	
1165	1170	Sand	•
1170	1195	Sandy Shale	•
1195	1254	Sand	•
1254	1285	Broken Sand and Shale	
285	1422	Red and Pink Shale	
1422	1461	- Send	
146I	1462	Shale	
			•
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		A. Sa. 19 Deputy	. E
		uty den 15 .	
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DECEIVED		County	Petrole	m	
DECEIVED AUG 30 1957		Green	2 Lease,		1 #10
	MONTANA BUREAU OF MINES AND Butte, Montana	GEOL	OGY		
STATE ENGINEER	·				

WATER WELL LOG

x	_ Cont:	inental Oi	l Co.			Box 878, Pow	all Trans
	Owner				Address	DOE CLOS TON	arry 100s
	Driller	***************************************	•••••		Address		
	Date Started	6-21-2	4		Date Com	pleted	Ļ
	Location: Sec.	14 1	. 15N	R 29E 1/4	sec. NW	NE	
Eleme of well	Drilled			ipment used	211		1.4
Type of well	(Dug, driven, bore	d, or drilled)	Eyu	ipment useu	(Churi	drill, rotary, other	;)
Water use: Domestic		Municipal		Stock		Irrigation	 i''
Industrial	X	Drainage		Other:	Water Floo	od	
Casing: Surface	ft. to 1203	ft.	Туре	20#	Size	6 5/8 ^{ss}	
Casing:	ft. to	ft.	Туре	•••••	Size	•	••••••••
Casing:	ft. to	ft.	Туре		Size		· ·
Perforated or Screened			***************************************	Ft		to ft	
Type of screen or perform	cations	n Hole	•••••				
Static Water level, for r							
Shut-in pressure, for flo	owing well:		•••••	lb./sq. in. on:			
Pumping water level	1200	feet	at 1500	BW/Mo.	g a	(date) l. per min	
	k Test						
Length of test							
-							
Remarks: (Gravel pac	king, cementing	g, packers, t	ype of sh	ut-off, depth	of shut-off)	•	
Produced water to i	oe used in wa	ter floodi	ng. At	present well	ll is prod	lucing oil an	d water.
•••••			***************************************			••••••	••••••••
	•••••••••••	***************************************	***************************************			••••••	••••••
	······································		***************************************		••••••••••		•••••••
<u></u>		***************************************	(over)				•••••••••••••••••••••••••••••••••••••••

	th, feet	Description of Materi	al Deillad		
From	To :	Description of Materi	ri Dillea		
O	250	Light Gray Shale		·	
250	253	Mosby Sand			
253	51.5	Light Gray Shale	· ·		
51.5	670	Dark Gray Shale			
670	1700	Light Gray Shale	<u> </u>	•	
1100	1200	Sandy Shale		<u>.:•</u>	
200	1230	Sand			
1230	1235	Broken Sand and Shale			
1235	1250	Sand	-		
				1. 1.	.: 1
				<u> </u>	
					
					Filed
				2.00	County County
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<u> </u>	1.	<u> </u>	<u> </u>		- Constant
				County Recorder. Deputy	of Feutlena,
				Deputy.	· 1 120
		<u> </u>		4 # 3 T	

Continental ail Co

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T. 15N R. 29E

AUG 30 1957

County Petroleum

Green 1 Lease, Well #18

STATE ENGINEER

MONTANA BUREAU OF MINES AND GEOLOGY

Butte, Montana

WATER WELL LOG

wner	Continental Oil Co	• Addre	ss Box 878, Powe	ll, Wyomi
Driller		Addre	ss	
Date Starte	d 6-24-23	Date (completed 7-10-2	3
Location: Se	ec. 14 T. 15N	R. 295 ¼ sec	NE NW	47. Tr
Type of well Drilled (Dug, driven, b.	Eo	quipment used	tools hurn drill, rotary, other)	***************************************
Water use: Domestic	Municipal .	Stock	Irrigation	<u> </u>
Industrial X	Drainage .	Other: Water f	looding	
Casing: Surface ft. to 1320)ft. Type	24 1b Size	8 1/4"	
Casing:ft. toft.	ft. Type	Size	•	
Casing:ft. toft.	ft, Type	Size		
Perforated or Screened: Ft	to ft	Ft	to ft	
Type of screen or perforations. Oper	n hole		***************************************	***************************************
static Water level, for non-flowing we	ell: Not availabl	<u>a</u>		feet.
hut-in pressure, for flowing well: No	ot available	lb./sq. in. on:		
•		-	(date)	
Pumping water level 1320				***************************************
How tested: Test tank		***************************************		
ength of test	•••••••••••••••••	••••••		
Remarks: (Gravel packing, cementi	ing, packers, type of s	shut-off, depth of shut-	off)	
roduced water to be used in	ater flooding. A	t present well is p	roducing oil and	water.
			•••••••••••••••••••••••••••••••••••••••	••••••
				•••••••••••
				······
				•••••••••••••••••••••••••••••••••••••••
		••••••		••••••
	1,,,,,			

Depth, feet		,
From	То	Description of Material Drilled
0	205	Blue shale
205	450	Elne shale
450	640	Dark shale
640	710	Dark sandy shale
710	755	Dark shale
755	760	Blue shale
760	775	Blue shale with oil
775	970	Blue shale
970	1015	Dark shale
1015	1270	Blue shale
1270	1295	Sandy shale
1295	1305	Blue clay
1305	1360	let Sand
1360	1370	Crey shale
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		Frild County
		Wiled 9; 00 at 9; 00
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	T15N		R	29B
B)ECEIVED	County	Petrol	our	••••••
DECEIVE MONTANA BUREAU OF MINES AND	Green 1 GEOLOG	Lease,	Well	<i>(</i> 19
STATE ENGINEER Butte, Montana	,			
WATER WELL LOG				

1.7

X	i i	Owner Co	ontinental	011 G	2s	Address	Box 878 , P	owell. Wyomi
		Driller	••••••			Address	J	
		Date Started	10-21-	23		Date Co	mpleted 11-	<u>1-23</u>
		Location: Sec	14 1	15N	R. 29E	4 secNE	NW.	
Type of well	Drille	Qug, driven, bore	ed or drilled)	E	quipment used	Cable	tools	er)
Water use:	Domestic		Municipal	_				
	Industrial	X	Drainage		Other:	Mater flo	oding	
casing: Su	rface	_ft. to1310	ft.	Type	40 116	Size	10a	••••••••
Casing:		ft. to	ft.	Type		Size	***************************************	***************************************
Jasing:		ft. to	ft.	Туре		Size	·»«·»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»»	********************
erforated (or Screened	i: Ft	to ft.	·····	Ft		to ft	***************
ype of scre	en or perfo	rationsOpe	en hole		·····		***************************************	***************************************
itatic Wate	r level, for r	non-flowing well	. Not ava	llable				feet.
hut-in pres	ssure, for fl	owing well:			lb./sq. in. on:	•		
	ntow Ionol	1310	foo	tat ⁵	OC BW/No.	,	(date)	
		tank						
			J.					
. •								•••••••
	•	king, cementin					·	
Produced	1 water t	o be used in	water floo	oding.	At present	well is	producing oil	and water.
	***************************************		**************			***************************************		*********
<i>,,,,</i> ,,	••••••••		•••••	••••••		**********		******************
	***************************************	******	•••••	••••••		*************		
		,,,,	·····	••••••••				***************************************
(i)				(over	.)			

Log of Well

	h, feet	Description of Material Drilled
From	To	
0	75	Brown shale
75	244	Dark brown shale
244	250	Hosby Sand
250	343	Brown shale
343	347	Dark grey sandy shale
347	630	From shale
630	955	Light shale
955	1050	Brown shale
1050	1090	Light shale
1090	1135	Shale, dark cavey
1135	1155	Shale, brown, soft cavey
1155	1185	Light shale
11.85	1250	Sandy shale
1250	1277	Light sandy shale
1277	1305	light sandy shale showing oil
1305	1365	1st oil sand
1365	1368	Idght pinkish shale
		· · · · · · · · · · · · · · · · · · ·
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Continentel oil to. 13

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BECEIVED			CountyPe			
UU AUC 20 10cm LL/			Clayton 7	Lease, Me		••••••
Įv)	IONTANA BUREAU	OF MINES AND	GEOLOGY	,		
STATE ENGINEER	But	ie, montana				
	WATE	R WELL LOG				
Own	er Continental Of	1 00.	Address	For 278,	Powell,	, Momin
Drill	ler	***************************************	Address			
Date	started 9-30-24		Date Con	npleted1	0-13-2 <u>i</u> .	
Loca	tion: Sec <u>14</u>	15N R 29E	1/4 sec. SE	NE		
Type of well [Dus.]	driven bared or drilled	Equipment used.	Cable	Tools	orban	
Water use: Domestic	Municipal		. П	Irrigatio		
· · · · · · · · · · · · · · · · · · ·	wanicipar					
Industrial X	Drainage		Water flo			
Dasing: Surface ft. to.	1274 ft.	Туре 24 16	Size	81/4"	••••••••	
Casing:ft. to.	ft.	Туре	Size	***************************************		
Casing:ft. to.	ft.	Туре	Size			
Perforated or Screened: Ft	to ft	Ft		to ft		
Type of screen or perforations	Open hole					
Static Water level, for non-flo						
Shut-in pressure, for flowing v						
				(date)		
Pumping water level	feet a	at 280 BW/Mo.	ga	ıl. per min.		
iow tested: Tenk test	·		•••••		***************************************	
Length of test			•••••••		······································	*************
Remarks: (Gravel packing, o	cementing, packers, ty	pe of shut-off, deptl	h of shut-off)		
Water being used for w	ster flooding.				***************************************	

		•	***************************************			••••••••••••••
			***************************************		***************************************	•••••••

(over)

	h, feet	Description of Material Drilled	
From	То	Description of Material States	
0	212	Gray shale	
212	216	Mosby Sand	
216	403	Gray shale	
403	521	Hard rock	
521	1194	Gray shale	
1194	1.274	Sandy shale	
1.274	1296	Sand	
	<u> </u>		
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continental oil 6

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	T	.15N	R	2916.		
	County	Petro	lew	·	•••••	•••••
'n	Clayton		و83	Well	#10	

STATE ENGINEER Butte, Montana

WATER WELL LOG

					•	
<u>_</u> <u>*</u> _	Owner Con	<u> vinemtal O</u>	il Co.	A	ddress Box 378	Powell, Wyomin
	Driller	••••••	••••	А	ddress	
	Date Started	10-3-22		D	ate Completed	10-27-22
	Location: Sec	14т.	L5N R.	22 <u>=</u> ¼ sec	NE NE	
Type of well	Drilled (Dug, driven, bored,	or drilled)	Equipmen	it used	Cable tools (Churn drill, rot	arv. other)
Water use: Domestic		Municipal		Stock	- 1	ation
Industrial	X	Drainage [$ \rbrack \circ$	ther:	ater flooding	
Casing: Surface	.ft. to1147	ft. T	ype24		Size 8 1/4"	
Casing:	ft. to	ft. T	:ype		Size	•
Casing:	ft. to	ft. T	ype		Size	
Perforated or Screened	: Ft	to ft	***************************************	Ft	to ft	•
Type of screen or perfor	ations	Open hole	•••••	4	••••	
Static Water level, for n	on-flowing well:	•••••				feet.
Shut-in pressure, for flo	owing well:	•••••••••	lb./sq	. in. on:	(date)	
Pumping water level	1147	feet at	1.050 BW	///o.	(
How tested: Tar	nk Test		••••••		•••••	
Length of test 20	BO/Mo.					
Remarks: (Gravel pac						
Mater to be used	for water flo	oding. At	present m	all is use	d to produce	oil and water.
		•••••	•••••••••••••••••••••••••••••••••••••••		***************************************	•••••••••••••••••••••••••••••••••••••••
			***************************************	***************************************	•••••••	
•••••••••••••••••••••••••••••••••••••••					***************************************	•••••••••••••••••••••••••••••••••••••••
® •			(over)			

Dept	h, feet	205 01 1100
From	То	Description of Material Drilled
0	6	Sandy soil
6	1,40	Brown shale
140	142	Sand
142	265	Gray shale
265	810	Dark shale
810	1050	Gray shale
1050	1152	Sandy shale
1152	1195	Sand (oil)
1195	1312	Red shale
1312	1351	Sanû (oil)
		e de la companya de
		
		
 -		Filed County
	<u> </u>	County of
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Continental oil Co.

U.R. m.

	T 15N R 292
	County Fetroleum
DECEIVED	Clayton 7 Lease, Well #6
AUG 30 1957 WONTANA BUREAU OF MINES AI	ND GEOLOGY
STATE ENGINEER WATER WELL LOG	
w Continental Cil Co.	Address Box 878, Powell, Wyomin
Driller	Address
Date Started 4-12-22	Date Completed 5-4-22
Location: Sec. 14 T. 15N R 29E	3 1/4 sec. SE NW
Type of well <u>Grilled</u> Equipment us	sed Cable tools (Churn drill, rotary, other)
Water use: Domestic Mc S	stock Irrigation
Industrial 🛣 Drainage 🗌 Other	r: Water flooding
Casing: Surface ft. to 1230 ft. Type 20 1	ib Size 6 5/8"
Casing:ft. toft. Type	Size
Casing:ft. toft. Type	Size
Perforated or Screened: Ft to ft F	Ft to ft
Type of screen or perforations	
Static Water level, for non-flowing well:	feet.
Shut-in pressure, for floving well:lb./sq. in.	on:
	(date)
Pumping water level 1230 feet at 2700 RW/Ko.	
How tested:Tank_test	
Length of test	
Remarks: (Gravel packing, cementing, packers, type of shut-off, de	·
Water to be used for water flooding. At present well i	is producing oil and water.
·	
(over)	

	th, feet	Description of Material Drilled
From	То	Diddiagniton of Mandolma Dimica
0	137	Brown and blue shale
137	TYO	Sand (water)
140	207	Elue shale
207	209	Mosby Sand
209	300	Slate
300	530	Blue shale
530	620	Dark shale
620	1160	Gray shale
1160	1231	Sandy shale
1231	1.284	Cat Creek Sand
		2.5 Ph. 1.7 C
	1	Fried OA
		o Da
•		
		Petdoleman o'chek
		Henoicum.
		1 1 3 1 % (V)
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Continental oil Co. 16

		T 15N	R 29E
		4	
BECEIVE			roleum case, Well #2
M AUG 30 1957 W MC	ONTANA BUREAU OF MI	NES AND GEOLOGY	case, well the
	Butte, Mont	ana	
STATE ENGINEER	WATER WEI	L LOG	
	Continue to 1 013 Co	~	AMA D. 13 11
Owner Countries	. Continental Oil Co.	Address.#	ox 6/6, rowert, wyo.
Driller	•	Address	***************************************
Date S	tarted 10-13-20	Date Comp	leted 10-27-20
Locati	on: Sec. 14 T. 15N	R 29E 1/ sec. NE N	E
D-411			
Type of well	iven, bored, or drilled)	pment used Cable to	drill, rotary, other)
Water use: Domestic	Municipal	Stock	Irrigation
Industrial X	Drainage	Other: Water flood	ing
Casing: Surface ft. to	1160 ft. Type	20 lb Size	6 5/8 ⁿ
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-flow	ing well:		feet.
Shut-in pressure, for flowing we	ell:	lb./sq. in. on:	
		-	(date)
Pumping water level			
How tested: Tank test			
Length of test			
Remarks: (Gravel packing, ce	menting, packers, type of sh	ut-off, depth of shut-off)	
Water to be used for wa	ter flooding. At prese	nt well is producing	oil and water.
*>*************************************			
.,			

(over)

		NOG OF WELL				
Dep	th, feet	Description of Material Drilled				
From	То	Description of Material Drifted				
0	97	Brown shale				
95	100	Mosby Sandstone				
100	835	Brown shale				
835	855	Black shale				
855	1070	Brown and black shale				
1070	1172	Gritty gray shale				
1172	1175	Sand				
·						
		jan Gustanaj				
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ПП	AUG	30	1957	Ш

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	-	LIGW A		••••••••

MONTANA BUREAU OF MINES AND GEOLOGY
Butte, Montana

STATE ENGINEER

		WAT	ER WELL	LOG			
	Owner	Continental	Oil Co.		Address	30x 878, Po	well, Wyo.
X	Driller				Address		
	Date Started	3-30-23		•••••••••••••••••••••••••••••••••••••••	Date Com	pleted 5-16	-23
	Location: Se	c. 14	15N	r. 295 ¼	sec SE N	t	
Type of well Dr	illed (Dug. driven, bo	red, or drilled)	Equip	ment used	Cable to	ol.	ner)
Water use: Domestic		Municipal		Stock		Irrigation	
Industrial	X	Drainage		Other:	Water flo	oding	••••••
Casing: Surface	ft. to l358	ft.	Type2	3#	Size §	1/4"	***************************************
Casing:	ft. to	ft.	Туре		Size		
Casing:	ft. to	ft.	Туре		Size		***************************************
Perforated or Screened	l: Ft	to ft.		Ft		to ft	••••••
Type of screen or perform	rationsOpes	n hole					
Static Water level, for r					••••••		feet
Shut-in pressure, for fle	owing well:		11	o./sq. in. on:			·····
Pumping water level	1358	fee	tat 60 BW	/Mo.	gal	(date) . per min	
How tested: Tank T							
Length of test							***************************************
Remarks: (Gravel pas					•		39
Produced water	r to de usec	l ior water	Hocorns	. At prese	ALC METT 7	s producin	E OIT
and water.					••••••••••••		
						.,	***************************************
•••••			•••••				***************************************
							•••••••
3 ***			(over)			•	

		Log of Well
Dept	h, feet	· · · · · · · · · · · · · · · · · · ·
From	То	Description of Material Drilled
_		
0	362	Blue Shile
362	368	Mosby Sand
	1	
368	625	Blue Shale
625	675	Dark Shale
675	725	Dark Shale - Muddy
015	725	park Share - Middy
725	740	Blue Shale
		
740	750	Dark Shale
750	865	Blue Shale
	<u> </u>	
865	925	Gray Shale
925	965	Blue Shale
965	1000	Light Shale - Muddy
1000	11.80	Blue Shale
	Ì	
1180	1210	Light Shale
1210	1250	Blue Shale
1250	1356	Sandy Shale - Showing oil
	1	
1356	1381	Oil Sand
	'	
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		Course Co
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	1	Pendonan Pendonan O'chack County
	 	
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Continental ail 6

v.P.m.

GW ~	Approved Stock Form-State Publishing Co., Helena, Montana-38687
File No	T15NR29E
DUPLICATE	County Petroleum

STATE OF MONTANA

ADM	OFFICE OF STATE ENGINEER OFFICE OF STATE ENGINEER
	on of Vested Groundwater Rights or Chapter 237, Montana Session Laws, 1961) STATE ENGINEER
(Name of Appropriat	or) (Address) (Town) State of Montana laws in effect prior to January 1, 1962, as follows:
	2. The beneficial use on which the claim is based
X	3. Date or approximate date of earliest beneficial use; and how continuous the use has beenAugust1950
	4. The amount of groundwater eleimed (in mices's inches on gellene
	4. The amount of groundwater claimed (in miner's inches or gallons per minute)
8	If used for irrigation, give the acreage and description of the lands to which water has been applied and name of the owner thereof
drawal of groundwaterScpt, aswater.well,August,19	6. The means of withdrawing such water from the ground and the location of each well or other means of withdrawal
works for the withdrawal of gro	e type, size and depth of each well or the general specifications of any other undwater Production string 5 3/16", 17f, casing set at
0 The estimated amount of ground	water withdrawn each year
	ed in the drilling of each weil if available
	ar nature as may be useful in carrying out the policy of this act, including y county record
	Signature of Owner
Three copies to be filed by the owne	r with the County Clerk and Recorder of the county in which the well is

Ph ase answer at questions. If not applicable, so state otherwise the form will be returned.

Original to the County Clerk and Recorder; duplicate to the State Engineer; Tuplicate to the Montana Bureau of Mines and Geology, and Quadruplicate for the Appropriator.

3020

PATE OF MONTANA.

Filed JUL 17 1963

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•	~Helena	Independent	Record
		macpenache	record

File No....

DUPLICATE

T. 15.N. R. 29.E.

County Petroleum

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

BECEIVED

Declaration of Vested Groundwater Rights

STATE ENGINEER

(Name of Appropriator)			(Town)
County of Petroleum	 mali-	State of Montana	to Tanuary 1 1069 on fol
lows:	rair	ig to the Montana laws in effect prior	to January 1, 1902, as 101
N	2	The heneficial use on which the claim	n is hased
		The beneficial use on which the claim Stock water	
	3	Date or approximate date of earliest b	eneficial uses and how cor
	0.	tinuous the use has been 1922 an thereafter.	d continuously
	4.	The amount of groundwater claimed (in miner's inches or gallor
		per minute) ne gallon pe	r minute
s	5.	If used for irrigation, give the acrea lands to which water has been applie	ge and description of the
		thereof None	
14 NW Sec. 15 T. 15NR 29E			***************************************
dicate point of appropriation			***************************************
d place of use, if possible.	6.	The means of withdrawing such wate	r from the ground and th
ch small square represents 10			Anna da an
res.	plet	location of each well or other means of well located in NE1/4RW1/4 Sec Range 29 Rast, M.P.M.	. 15, Township 15 Nor
The date of commencement and commencemen	nce	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922	ls, or other works for with
The date of commencement and commencemen	ft e, s	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922 tize and depth of each well or the gendwater 10" casing 1800 ft. in.	ls, or other works for with
The date of commencement and commencemen	ft e, s	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922 tize and depth of each well or the gendwater 10" casing 1800 ft. in	ls, or other works for with
The date of commencement and commencemen	ft e, s	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922 tize and depth of each well or the gendwater 10" casing 1800 ft. in	ls, or other works for with
The date of commencement and commencemen	ft e, s rour	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922 tize and depth of each well or the gendwater 10" casing 1800 ft. in 1922	ls, or other works for with
The date of commencement and commencemen	ft e, s rour	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922 tize and depth of each well or the gendwater 10" casing 1800 ft. in withdrawn each year 518,400 gall	ls, or other works for with
The date of commencement and commencemen	ft e, s rour	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922. tize and depth of each well or the gendwater 10" casing 1800 ft, in	ls, or other works for with
The date of commencement and commencemen	oe, second	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922 tize and depth of each well or the gendwater 10" casing 1800 ft. in withdrawn each year 518,400 galled drilling of each well if available	ls, or other works for with
The date of commencement and commencemen	oe, strough	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922 tize and depth of each well or the gendwater 10" casing 1800 ft. in withdrawn each year 518,400 gall	ls, or other works for with the specifications of an depth.
The date of commencement and commencemen	er v	well located in NEI/41W1/4 Sec. Range 29 East, M.P.M. tion of the construction of the well, well and completed in 1922 tize and depth of each well or the gen adwater 10" casing 1800 ft. in withdrawn each year 518,400 gall at drilling of each well if available are as may be useful in carrying out the y record	ls, or other works for with the specifications of an depth.
The date of commencement and commencemen	er v	well located in NEI/41W1/4 Sec. Range 29 East, M.P.M. tion of the construction of the well, well and completed in 1922 tize and depth of each well or the gen adwater 10" casing 1800 ft. in withdrawn each year 518,400 gall at drilling of each well if available are as may be useful in carrying out the y record	ls, or other works for with the specifications of an depth.
The date of commencement and commencemen	er v	Range 29 East, M.P.M. tion of the construction of the well, welled and completed in 1922 tice and depth of each well or the gendwater 10" casing 1800 ft, in withdrawn each year 518,400 galies drilling of each well if available are as may be useful in carrying out the y record. Signature of Owner.	ls, or other works for with the specifications of an depth.

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.

STATE OF MONTANA, as.

3:55 o'clock P. M.

Bonny L. Dengel

County Recorder.

Camel Depus

File No.....

T 15 N R 29 E

DUPLICATE

County Petroleum

STATE OF MONTANA

ADMINISTRATOR OF GROUNDWATER CODE

DECEIVED

		OFFIC	E OF STATE ENGINEER	M FEB 18 1963 世
		Declaration of	Vested Groundwater Rights	
			r 237, Montana Session Laws, 1961)	STATE ENGINEER
	L. C. T	Thorsen	, of	Cat Creek
	(Name of	Appropriator)	(Address)	(Town)
:	County of Polyhave appropriated gr lows:	croleum coundwater accordir	(Address) State of Montana ng to the Montana laws in effect prio	r to January 1, 1962, as fol-
Γ	м	2.	The beneficial use on which the claim Stock water	m is based
		S.	Date or approximate date of earliest tinuous the use has been	r of 1958 and continuou
-		E		
[┆╸ ┼ ╸ ┼╸┼╸╂╸┤╍┤╴	4.	The amount of groundwater claimed	(in miner's inches or gallons
ļ			per minute) 5 gallons per min	
L	s	5.	If used for irrigation, give the acre lands to which water has been appli	age and description of the led and name of the owner
			thereof	
SE.	.4.SE. Sec. 17. T15N	i. R29E.		
nd	icate point of approp	priation	***************************************	
	place of use, if p			
			The means of withdrawing such water	
Eac	h small square repres		The means of withdrawing such water location of each well or other means and pump jack located in SE1/4. 15 North, Range 29 East, M.P.M.	of withdrawal Gas motor SE1/4 Sec. 17, Township
Eac	h small square represes. The date of commend drawal of groundwate.	eement and complet er Commenced De	location of each well or other means and pump jack located in SE1/4. 15 North, Range 29 East, M.P.M. ion of the construction of the well, we see the construction of the well, we see the compact of 1958; compacted January	of withdrawal Gas motor SE1/4 Sec. 17. Township
Eac	h small square represes. The date of commence drawal of groundwate. The depth of water to	eement and complet er Commenced Da able 2100 f	location of each well or other means and pump jack located in SE1/4: 15 North, Range 29 East, M.P.M. ion of the construction of the well, we be combar of 1958; compacted January	of withdrawal Gas motor SE1/4 Sec. 17, Township
Cac	h small square represes. The date of commence drawal of groundwate. The depth of water to	eement and complet er Commenced Da able 2100 f	location of each well or other means and pump jack located in SE1/4: 15 North, Range 29 East, M.P.M. ion of the construction of the well, we be combar of 1958; compacted January	of withdrawal Gas motor SE1/4 Sec. 17, Township
Eac	h small square represes. The date of commence drawal of groundwate. The depth of water to	eement and complet er Commenced Da	location of each well or other means and pump jack located in SE1/4. 15 North, Range 29 East, M.P.M. ion of the construction of the well, we see the construction of the well, we see the compact of 1958; compacted January	of withdrawal Gas motor SE1/4 Sec. 17, Township
Eac	h small square represes. The date of commence drawal of groundwate. The depth of water to the works for the works for the with gas motor a	ement and complet er Commenced De able 2100 f	location of each well or other means and pump jack located in SE1/4: 15 North, Range 29 East, M.P.M. ion of the construction of the well, we comber of 1958; completed January feet ize and depth of each well or the gentlement of withdrawal of water.	of withdrawal Gas motor SE1/4 Sec. 17. Township lls, or other works for withary. 1959.
Cac	h small square represes. The date of commence drawal of groundwate. The depth of water to the depth of the vertical source and the stimated amount. The estimated amount.	sents 10 cement and completer Commenced Description able 2100 fermion of ground pump jack for the commence of groundwater we encountered in the	location of each well or other means and pump jack located in SE1/4: 15 North, Range 29 East, M.P.M. ion of the construction of the well, we comber of 1958; completed January casing 2100 deep withdrawal of water. withdrawal of water.	of withdrawal Gas motor SE1/4 Sec. 17. Township lls, or other works for withary. 1959.
Cac	h small square represes. The date of commence drawal of groundwate. The depth of water to the depth of the vertical source and the stimated amount. The estimated amount.	sents 10 cement and completer Commenced Description able 2100 fermion of ground pump jack for the commence of groundwater we encountered in the	location of each well or other means and pump jack located in SE1/4: 15 North, Range 29 East, M.P.M. ion of the construction of the well, we seember of 1958; completed January feet ize and depth of each well or the gendwater 3" casing 2100 deep withdrawal of water.	of withdrawal Gas motor SE1/4 Sec. 17. Township lls, or other works for withary. 1959.
Eac	h small square represes. The date of commence drawal of groundwate. The depth of water to the depth of the vertical source and the stimated amount. The estimated amount.	sents 10 cement and completer Commenced Description able 2100 fermion of ground pump jack for the commence of groundwater we encountered in the	location of each well or other means and pump jack located in SE1/4: 15 North, Range 29 East, M.P.M. ion of the construction of the well, we comber of 1958; completed January casing 2100 deep withdrawal of water. withdrawal of water.	of withdrawal Gas motor SE1/4 Sec. 17. Township lls, or other works for withary. 1959.
Eacere	h small square represes. The date of commence drawal of groundwate. The depth of water to so far as it may be avoider works for the voither works for the voither works for the voither amount. The log of formations unk.	sents 10 cement and completer Commenced Date able 2100 f vailable, the type, si withdrawal of groun and pump jack for t of groundwater v encountered in the mown on of a similar natural page of any county	location of each well or other means and pump jack located in SE1/4: 15 North, Range 29 East, M.P.M. ion of the construction of the well, we comber of 1958; completed January casing 2100 deep withdrawal of water. withdrawal of water. withdrawal of each well if available cases as may be useful in carrying out they record.	of withdrawal Gas motor SE1/4 Sec. 17. Township. Ills, or other works for withary, 1959. Increal specifications of any in camented hole,
Eacre	h small square represes. The date of commence drawal of groundwate. The depth of water to the works for the works for the with gas motor a second s	sents 10 cement and completer Commenced Date able 2100 f vailable, the type, si withdrawal of groun and pump jack for t of groundwater v encountered in the	location of each well or other means and pump jack located in SE1/4: 15 North, Range 29 East, M.P.M. ion of the construction of the well, we compared January of 1958; compared January of 1958; compared January of the general depth of each well or the general deep withdrawal of water. withdrawal of water. withdrawal of each well if available decided as may be useful in carrying out the gracord.	of withdrawal Gas motor SE1/4 Sec. 17. Township. Ills, or other works for withary, 1959. Ineral specifications of any in camented hole, gallons.
Eacre	h small square represes. The date of commence drawal of groundwate. The depth of water to the works for the works for the with gas motor a set of the with gas motor a set of the with gas motor a set of the works. The estimated amount the log of formations to the works for the wo	sents 10 cement and completer Commenced Description able 2100 f vailable, the type, significant for ground pump jack for the commenced in the chown complete the commence of a similar natural page of any county none	location of each well or other means and pump jack located in SE1/4: 15 North, Range 29 East, M.P.M. ion of the construction of the well, we compared January of 1958; compared January of 1958; compared January of the general depth of each well or the general deep withdrawal of water. withdrawal of water. withdrawal of each well if available decided as may be useful in carrying out the gracord.	of withdrawal Gas motor SE1/4 Sec. 17. Township. Ills, or other works for withary, 1959. Ineral specifications of any in camented hole, gallons.
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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.

3635.

County of Petrolenus.

Bonny L. Dengel

County Recorder.

GW 2 9	STATE WAT	ER CONSERVATION BOARD	Stock Form—State Publishing Co., 1	Helena, Montana—4232:
File No		JUN 22 1966	TINY	ROTE
DUPLICATE	100g	McDaumala	County	setuckeum
	A Finnerial .	or and the Marine	STATE OF MONTANA	
Man of Channel	And the state of t	ADMINISTR OFFI	ATOR OF GROUNDWA	TER CODE
Top of Ground	Radial Conference and	to complete and	· · · · · · · · · · · · · · · · · · ·	
(Elev. above sea	level	•	ompletion of G	
1 3019ace So	iL		ation by Means	
1 2 0 1			PED AFTER JANUARY	•
253 Sand-Shel			er 237, Montana Session	
21 Say 1+505t	SluleSt/	Howner Henry Pit	Address	WISTOWN, MONT
and the state of t				in 1
390 Sair Good NO	risty(H)	`	i	& (tob) (c)
5 94 5 ha LO+50,	Stills	Date of Notice of appropri	ation of groundwater#1	1 hpplicare
	, 211-12. 11	Date well started 1	Sbr 16 Date comple	ted+Pr-30 -1966
Y _		Type of well Chill	ed Equipment use	cal Rotavy
		(, , ,	
		Water use: Domestic [Industrial [Stock Irrigation 🗌 🗎
		Indicate on the diagran	n the character and thick	ness of the different strata
		met with in drilling, such a depth at which water is end	is soil, clay, shale, gravel countered, thickness and c	i, rock or sand, etc. Show
_		strata and height to which	the water rises in the we	11.
-		Size of Size and Drilled Weight	From To (Feet)	PERFORATIONS
: -		Hole it of Casing	O GIL Kind	
<u> -</u>		6/4	0 000	
		5/3 15	0 14 18 9	0, 80 90
-				
<u> </u>				
. –				
: -		N	Static Water Lev	vel for non-flowing well
 -				feet.
-				or Flowing Well
			1 9 1/	Level 6 feet
		W	1 / 4	gal. per minute. per min. of flowing well
-			Discharge in gai.	per min. or nowing wen
—]		$ \mathscr{Q} $	How Tested Ba	Ling
-			Length of Test. Re	qual 117 Telles
		. , , , , .		packing, cementing, pack-
	5	1 Sed S T B	ers, type of shutofi	i)
		Indicate location of well place of use, if possible. E	3ΠΩ	2 15'- 30-81'
		small square represents acres.	40	

		***************************************	(Continue on reverse side)
		USE—If used for irrigation	on, industrial, drainage	or other. Explain, state i.e.: Lot, Block and Addi-
		tion).	reserver or concerdant (1	nor. now, mook and addi-
_		***************************************		
Show exact depth	of bottom.	***************************************	·	· ·
		=======================================		<u>, </u>
This form to be prepared by de	illar, and three ee	pies to be filed by the owner with	the	<u>b</u>
County Clerk and Recorder in t		h the well is located, tissue copy to		ise Number
retained by driller.	·ø		B.M	Mundon
Please answer all questions. I	I not applicable,	so state, otherwise the form will	Driller's Signs	ature

Matu Cap. # 284

STATE OF MONTANA, County of Petroleum,

Filed JUN 2 1 1966

C	—Helena	Independent	Record

File	No

т	15	N.	R	29	E

County...Petroleum

DUPLICATE

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

DECEIVE D

Declaration of Vested Groundwater Rights

(Under Chapter 237, Montana Session Laws, 1961)

STATE ENGINEER

•••••••••••		C. Thor	sen	, of	Cat Creek
~	(Nai	me of A Petr	(ppropriator	(Address) State of	(Town)
have ar lows:	oippropria	ited grou	ındwater acco	rding to the Montana laws in effe	ct prior to January 1, 1962, as fol
	N	1	\Box	2. The beneficial use on which t Stock water and househol.	he claim is based
			 		arliest beneficial use; and how con 13 and continuously there-
			E	- ·	aimed (in miner's inches or gallon
	* s		<u>† </u>	5. If used for irrigation, give the lands to which water has bee	
SIE 1/4 SW	Sac 18	т 15N	R 298	fueleol **********************************	AH 984/4984/A SECA 18-18-23
indicate po and place Each small acres.	of use	, if pos	ssible.	6. The means of withdrawing su- location of each well or other wide by 29° deep cemented	•
	te of cor	mmence: indwater	ment and com	located in SE1/4SW1/4 Sec Range 29 East, M.P.M.	. 18, Township 15 North,
The dat		•••••	••••••••••	located in SE1/4SW1/4 Sec Range 29 East, M.P.M. piction of the construction of the w i and completed in 1913	. 18, Township 15 North, rell, wells, or other works for with
The dat	pth of w	vater tak	ole	located in SE1/45W1/4 Sec Range 29 East, M.P.M. Diction of the construction of the will and completed in 1913	rell, wells, or other works for with
The dat	pth of w	vater tak	ole	located in SE1/4SW1/4 Sec Range 29 East, M. 7. M. Diction of the construction of the will and completed in 1913	rell, wells, or other works for with
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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.

#177

STATE OF MONTANA, \ es.

_o'clock <u>P.</u>M.

Bonny L. Dengel County Recorder.

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T 15N. R Range 29E. County Petroleum

DUPLICATE

STATE OF MONTANA ADMINISTRATOR OF GROUNDWATER CODE OFFICE OF STATE ENGINEER

DECEIVED

Declaration of Vested Groundwater Rights

STATE ENGINEER

(Name of Appropriator)	, of	Cat Creek
(Name of Appropriator)	(Address)	(Town)
County of Petrolem	(Address) State of Montana	
have appropriated groundwater acc lows:	cording to the Montana laws in effect pri	or to January 1, 1962, as fo
N	2. The beneficial use on which the cla	im is hased
	Stock water	
	3. Date or approximate date of earliest	
	after. 1850 as	
E		The second secon
	4. The amount of groundwater claimed	
	per minute) 5 gallons per minu	
	5. If used for irrigation, give the act	
S	lands to which water has been app	lied and name of the own
•	thereof none	
.4.NE Sec. 19. T.151 R. 29E	······································	
icate point of appropriation		
place of use, if possible.	6. The means of withdrawing such wa	ter from the ground and th
h small square represents 10	location of each well or other mean	s of withdrawal cement
es.	trough and diversion box in	enced area for water
	flow in SE1/4NE1/4 Sec. 19, 7	Township 15 N. Range 2
	H., M.P.M.	• • •
The date of commencement and con	npletion of the construction of the well, w	ells, or other works for with
drawal of groundwater Underg	round spring	

The depth of water table	none	
So far as it may be available, the ty other works for the withdrawal of g	pe, size and depth of each well or the groundwater Cament trough 12' x 1'	general specifications of an to divert water flow
So far as it may be available, the ty other works for the withdrawal of gand make it available to live	pe, size and depth of each well or the groundwater Coment trough 12 x 1 estock.	general specifications of an to divert water flow
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So far as it may be available, the tyother works for the withdrawal of gand make it available to live. The estimated amount of groundwa. The log of formations encountered in unknown.	pe, size and depth of each well or the groundwater Cament trough 12' x 1' estock. ter withdrawn each year 2,592,0 the drilling of each well if available	general specifications of an to divert water flow. 00 gal.
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So far as it may be available, the typother works for the withdrawal of grand make it available to live The estimated amount of groundwa The log of formations encountered in unknown. Such other information of a similar reference to book and page of any conone	pe, size and depth of each well or the groundwater Cament trough 12' x 1' estock. ter withdrawn each year 2,592,0 the drilling of each well if available	general specifications of an to divert water flow. 00 gal.

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Courty of Petrolema. Sea.

Mind February 15 1963

Bonny L. Dengel
County Recorder.

Danis Parist
Deputy,