

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax: (303) 894-2109



FOR OGCC USE ONLY

INJECTION WELL PERMIT APPLICATION

Submit a completed Form 33 with or after approval obtained on Form 31 (Underground Injection Permit Application) or you must have a previously approved Injection Well Permit.

- Operator may not commence injection into this well until this form is approved.
- Each individual injection well must be approved by this form.

Well Name and Number: Peterson PF #1 API No: #05-087-05179
 UIC Facility No: _____ (as assigned on an approved Form 31)
 Project Name: Peterson PF #1 SWD Operator Name: Western Operating
 Field Name and Number: Sand River - #76300 County: Morgan#087
 QtrQtr: SWSE Sec: 22 Twp: 1N Range: 56W Meridian: 6 PM

Complete the Attachment Checklist

	Oper	OGCC
Current Wellbore Diagram	✓	
Proposed Wellbore Diagram	✓	

CURRENT WELLBORE INFORMATION

	SIZE	DEPTH	NO. SACKS	CEMENT TOP	Cement Top Determined By:		
					CBL	CIRCULATED	CALCULATED
Surface Casing	10.75"	132	100	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Intermediate Casing (if any)					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Production Casing	5.5"	5179	250	0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Plug Back Total Depth: _____ Tubing Depth: _____ Packer Depth: 5080
 D Sands _____ Formation Gross Perforation Interval: 5144' to 5151'
 _____ Formation Gross Perforation Interval: _____ to _____
 _____ Formation Open Hole Interval (if any): _____ to _____

List below all Plugs, Bridge Plugs, Stage Cementing or Squeeze Work performed on this wellbore: (if more space needed, continue on reverse side of this form.)

- Packer Placed at 5080'
-
-
-

Describe below any changes to the wellbore which will be made upon conversion. (This includes but not limited to changes of tubing and packer setting depths, any additional squeeze work for aquifer protection or casing leaks, setting of bridge plugs to isolate non-injection formations.)

- NA
-
-
-

Comments:

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Steven D. James

Signed:  Title: President Date: 5/3/2018

OGCC Approved: _____ Title: _____ Date: _____

MAX. SURFACE INJECTION PRESSURE: _____ If Disposal Well, MAX. INJECTION VOL. LIMIT: _____

CONDITIONS OF APPROVAL, IF ANY:

Well Completion Diagram

API Well No: 05-087-05179-00-					
Owner:	WESTERN OPERATING COMPANY			Well Name:	PETERSON P F
County:	MORGAN	Field:	SAND RIVER	Pool:	
Coordinates: X	2310 FEL	; Y	330 FSL	Sec: 22	Twp: 1N Rng: 56W

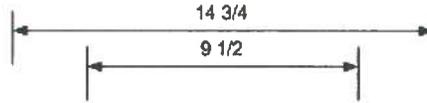
Note: Changes to the drawing do not effect the database

Legal Location:

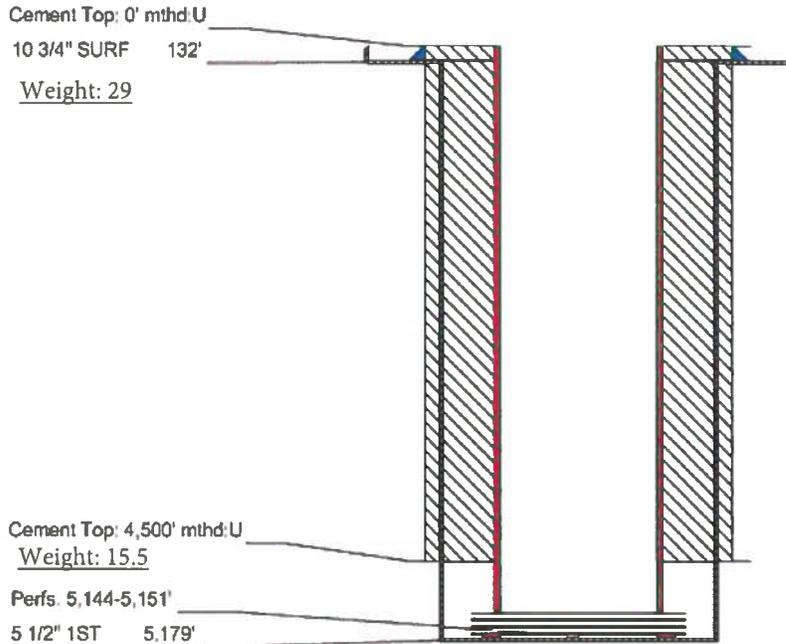
SWSE Sec:22 T1N R56W 6PM

Date of Diagram: 4/9/1958

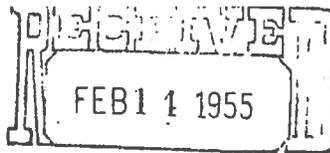
Bore Diameters (in.)



FORMATION	LOG TOP
NIOBRARA	4225
TIMPAS	4660
CARLILE	4709
GREENHORN	4774
DAKOTA	5100



	22	
		x



LOG OF OIL AND GAS WELL

HMM	
AH	
JJD	<input checked="" type="checkbox"/>
FILE	

OIL & GAS
CONSERVATION COMMISSION

Field Sand River Pool Company Skelly Oil Company
 County Morgan Address Drawer 310 - Sterling, Colorado
 Lease P. F. Peterson
 Well No. 1 Sec. 22 Twp. 1N Rge. 56W Meridian --- State or Pat. Pat.
 Location 330 Ft. ^(N) ~~SE~~ of south Line and 2310 Ft. (W) of ^{NEC} east line of SEC Elevation 4500
 (Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed C. J. Bass

Date February 10, 1955 Title District Superintendent

The summary on this page is for the condition of the well as above date.
 Commenced drilling August 16, 19 54 Finished drilling August 23, 19 54

OIL AND GAS SANDS OR ZONES

No. 1, from 5106 to 5110 No. 4, from _____ to _____
 No. 2, from 5125 to 5151 No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from None to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

SIZE	WT. PER FOOT	MAKE	WHERE LANDED	NO. OF SKS. CEMENT	STOOD HOURS	PRESSURE TEST PSI
<u>10-3/4"</u>	<u>29#</u>	<u>Armco</u>	<u>132</u>	<u>100</u>	<u>24</u>	<u>130#</u>
<u>5-1/2"</u>	<u>15.5#</u>	<u>SS J-55</u>	<u>5179</u>	<u>250</u>	<u>72</u>	<u>1000#</u>

COMPLETION DATA

Total Depth 5179 ft. Cable Tools from None to _____ Rotary Tools from 0 to 5179
 Casing Perforations (prod. depth) from see back to _____ ft. No. of holes _____
 Acidized with none gallons. Other physical or chemical treatment of well to induce flow none
 Shooting Record none

Prod. began September 6, 19 54 Making 46 bbls./day of 36.8 A. P. I. Gravity Fluid on --- Pump
 Choke.
 Tub. Pres. None lbs./sq. in. Csg. Pres. 20 lbs./sq. in. Gas Vol. 25 Mcf. Gas Oil Ratio 250/1
 Length Stroke 44 in. Strokes per Min. 14 Diam. Pump 1 1/2" in.
 B. S. & W. --- % Gas Gravity --- BTU's/Mcf. --- Gals. Gasoline/Mcf. ---

WELL DATA

Indicate (yes or no) whether or not the following information was obtained.

Electrical Log yes Date August 22, 19 54 Straight Hole Survey yes Type Geolograph
 _____ Date _____ 19 _____ Other Types of Hole Survey None Type _____
 Time Drilling Record No (Note—Any additional data can be shown on reverse side.)
 Core Analysis yes Depth see back to _____ to _____

FORMATION RECORD

Show all formations, especially all sands and character and contents thereof.

FORMATION	TOP	BOTTOM	REMARKS
<u>Niobrara Chalk</u>	<u>4225</u>		

CASING PERFORATIONS CONTINUED

5151	5153	12 holes
5103	5108	12 holes
5106	5111	12 holes
5130	5144 $\frac{1}{2}$	70 holes

FORMATION RECORD CONTINUED

1st. Dakota "D" Sand 5100

Base 1st. Dakota "D" S 5169



CORE NO. 1 FROM 5100'-5107' RECOVERED 3'

6" Medium hard shaley sand stone, no show.

2' hard siltstone w/thin sand streaks.

6" laminated sand and shale.

CORE NO. 2 FROM 5108 $\frac{1}{2}$ '-5156' RECOVERED 47 $\frac{1}{2}$ '

1' 6" hard tight quart sand w/thin shale partings slight stain in top, odor thru out.

6" thin laminated sand and shale.

6" hard gray sand looks wet, no show.

1' laminated sand and shale.

7' 6" med. hd. siltstone w/scattered sand streaks

6' 6" laminated silt and sand, no show.

1' hard gray fine grained sand, spotty stain and fair odor, has vertical fractures

4' 6" laminated sand and shale part of sand streaks w/stain and odor.

6" hard fine grained sand w/light stain

Peterson PF #1
 SWSE Sec 22-1N-56W
 Morgan County, Colorado
 Existing Wellbore
 API #05-087-05179

Top of Cement - Surface

9 1/2" hole

FORMATION	LOG TOP
NIOBRARA	4225
TIMPAS	4660
CARLILE	4709
GREENHORN	4774
DAKOTA	5100

Surface Csg 10 3/4"
 132 Feet
Weight: 29

Top of Cement
 4500'

Production Csg 5 1/2"
Weight: 15.5

TD 5179'

Packer 5080'

D Sand Perfs
 5144'-5151'

