



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.

1. Operator may not commence injection into this well until this form is approved.
2. 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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proposed Wellbore Diagram	<input checked="" type="checkbox"/>	<input type="checkbox"/>

CURRENT WELLBORE INFORMATION

					Cement Top Determined By:		
	SIZE	DEPTH	NO. SACKS	CEMENT TOP	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.)

1. Packer Placed at 5080'

2.

3.

4.

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.)

1. NA

2.

3.

4.

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: [Signature] 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:

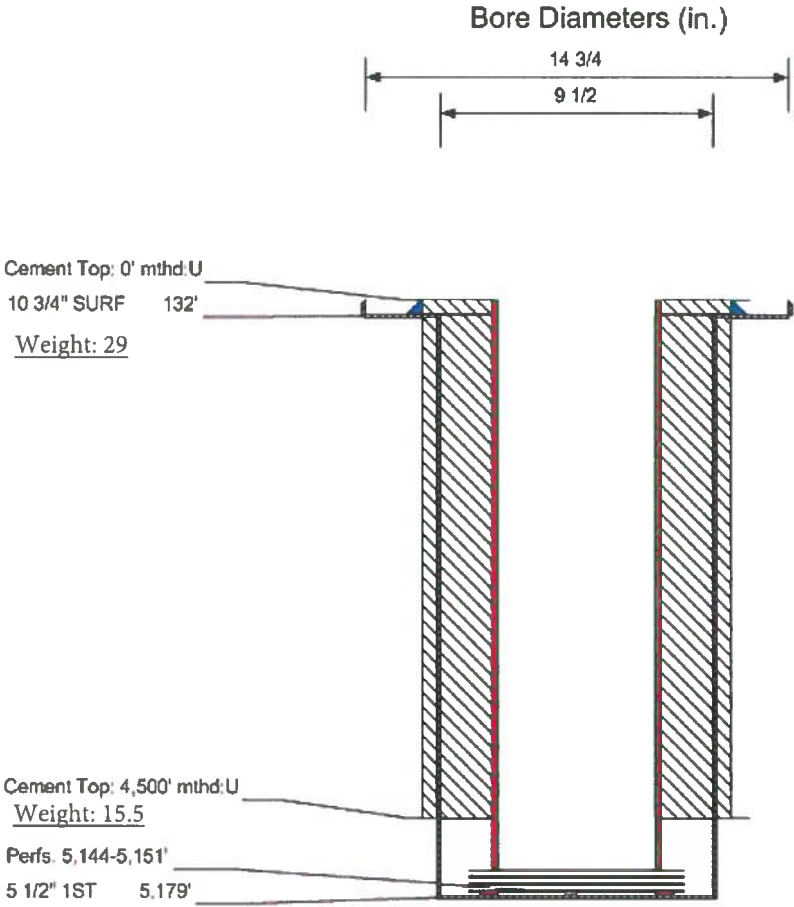
Well Completion Diagram

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

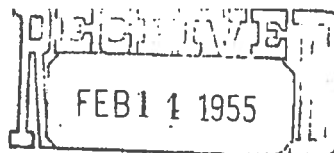
Legal Location:

SWSE Sec:22 T1N R56W 6PM
Date of Diagram: 4/9/1958



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

	22	
	x	



OIL & GAS
CONSERVATION COMMISSION

LOG OF OIL AND GAS WELL

HMM	
AH	
JJD	✓
FILE	

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 (N) 330 Ft. (S) of South Line and 2310 Ft. (W) of 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
10-3/4"	29#	Armco	132	100	24 -	130#
5-1/2"	15.5#	SS J-55	5179	250	72	1000#

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 ---

FORMATION RECORD

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

FORMATION	TOP	BOTTOM	REMARKS
Niobrara Chalk	4225		

CASING PERFORATIONS CONTINUED

5151	5153	12 holes
5103	5108	12 holes
5106	5111	12 holes
5130	5144 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 5108¹/₂'-5156' RECOVERED 47¹/₂'1' 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
fractures4' 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

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

Top of Cement
4500'

Production Csg 5 1/2"
Weight: 15.5

TD 5179'

9 1/2" hole

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

Packer 5080'

D Sand Perfs
5144'-5151'