

# Field Sampling Data Sheet

COGCC Facility ID: Pilkingtion 41-13D & 31-13D with Tank Battery (nearest)  
Site Address: -17601 CR 10, Weld County, NWNE Sec. 13, T-1-N, R-66-W  
Site Contact: n/a  
Phone #: n/a  
Date of Sample: 2/16/2016  
Sample Type (baseline, post-drill, complaint): Complaint #200438711  
Oil & Gas Well API Number: 123-23711 & 123-23174

Property Owner Name: James Petras  
Property Owner Phone Number: \_\_\_\_\_  
Property Owner Mailing Address: \_\_\_\_\_

Individuals Present (Who was on-site during the sampling event?)  
Steven J. Arauzo (COGCC EPS)

## Water Well Information from Permit Records

Permit No.: n/a  
Receipt No.: n/a  
Total Depth (ft.): unknown  
Static Water Level (ft.): unknown  
Yield (GPM): unknown  
Well Diameter (in.): unknown

## Water Well Information Onsite

GPS Location (field): 40.05708 N, 104.72259 W  
GPS Location (post-processed): n/a  
Water well casing height (in.): -6"  
Ground Elevation (ft.): 5042' How determined: GPS  
Approximate distance to the Oil & Gas well pad: -600', NW  
%LEL at wellhead (if measured): 0%  
%CH<sub>4</sub> at wellhead (if measured): 0% (0.5 ppm H2S)  
Weather conditions: Sunny, high-50s  
Photo(s) Taken? **Y N** yes  
Handed Out Landowner Introduction Letter? **Y N** no  
Handed Out FAQ Sheet? **Y N** no  
Handed Out "How Well Do You Know Your Water Well" Pamphlet? **Y N** no

Where was the Sample Taken? backyard spigot (front porch spigot had aerator, unable to remove)  
(Outside Tap, Well House, Kitchen Tap, Spring, Seep, etc.)

Condition of the Well, Spring or Seep (Wellhead sealed? Does the ground slope away from the well?, Visible contamination of spring/seep?, etc.):

WH sealed, no visible contamination, 0.5 ppm H2S detected by personal gas meter at WH. 28+ ppm CO measured at spigot after purging for ~15 min. Front spigot was not sampled, but abundant rust and precipitate observed.

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**Landowner Comments on Water Quality:** Landowner reported: I can light the fumes coming from my faucets... via Form 18. Via phone, reported oily film/residue on water, no WW info provided but reported well to be 20 years old. Water system (reverse osmosis & softener) turned off-not bypassed. Reports that a neighbor was able to ignite their faucets a few years ago. Also alleged decline in water quality corresponding with workover operations at nearby KMG facility.

**Water Quality Field Parameters:**

Time	Purge Vol. (gal)	pH	Conductivity	Temp	Color/Appearance /Sediment	Odor	Bubbles/Effervescence?
1155	5			52	clear	none	none
1200	38			62	clear	none	none
1205	71			62	clear	none	none

Purge rate (gpm): -6.7 Purge Time (min.): 20  
 Total Purge Volume (gal.): -138  
 Sampling flow rate (gpm): -1.8

**ADDITIONAL INFORMATION:** Water Quality Field Parameters (Continued)

Time: 1210, Vol: 104 gal, Temp: 62 degrees, Appearance: clear, no odor nor effervescence

Time: 1215, Vol: 138 gal, Temp: 62 degrees, Appearance: clear, no odor nor effervescence

Sampled 250 - 1000 ml. bottles at -1.8 gpm, reduced flow rate for VOA vials and BART test.  
Bottles and VOA vials hand-delivered to TestAmerica the same day.

Sampler's Name Steven J. Arauza Company: COGCC

Sampler's Signature (Print)  Date: 12/17/2016

Complaint #200438711 Aerial Photograph with water well and sampling locations



• 123-23174  
• 123-23711

Nearest oil and gas operation - Kerr Mcgee Pilkington well pad with tank battery.

An attempt was made to sample from the spigot on the front side of the house, but an attached aerator could not be removed safely.

Samples were collected from spigot on backside of the house at 12:20 pm on 2/16/2016 (after purging for 20 minutes--until water temperature stabilized)

Wellhead

