

Historical Document Review Report

**Tabor #7 Oil and Gas Well Site
Longmont, Colorado**

January 8, 2018
Terracon Project No. 22177040



Prepared for:
City of Longmont
Longmont, Colorado

Prepared by:
Terracon Consultants, Inc.
Longmont, Colorado

terracon.com

Terracon

Environmental ■ Facilities ■ Geotechnical ■ Materials

January 8, 2018



City of Longmont
385 Kimbark Street
Longmont, Colorado 80501

Attn: Mr. Jason Elkins
P: (303) 651-8310
E: Jason.Elkins@longmontcolorado.gov

Re: Historical Document Review Report
Tabor #7 Oil and Gas Well Site
Longmont, Colorado
Terracon Project No. 22177040

Dear Mr. Elkins:

Terracon Consultants, Inc. (Terracon) is pleased to submit our report of Historical Document Review activities completed at the site referenced above, to accompany the Limited Soil, Groundwater, and Soil Gas Investigation Report dated December 14, 2017. Terracon conducted the document review in general accordance with our proposal (P22177040), dated September 28, 2017.

Terracon appreciates this opportunity to provide environmental consulting services to The City of Longmont. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.

Michael J. Skridulis
Project Manager

A handwritten signature in blue ink, appearing to read 'D.A. Brown', with a long, horizontal, wavy line extending to the right.

Derek A. Brown, P.E.
Environmental Department Manager

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1.0 SITE DESCRIPTION

Site Name	Tabor #7 O&G Well Site
Site Location	South of 11700 Quail Road, Longmont, Colorado

A Topographic Map showing the site location is included as Exhibit 1 and a Site Diagram is included as Exhibit 2 (from Investigation Report) in Appendix A.

2.0 SCOPE OF SERVICES

In 2011, Terracon began a series of limited site investigations for the City of Longmont (COL) at select active oil and gas (O&G) sites. Additionally, in 2012, Terracon performed an O&G Wellhead Reconnaissance of active O&G well sites on COL properties. In 2013, Terracon performed site investigations at nine active O&G well sites on City of Longmont property and developed a Groundwater Quality Monitoring Program for the City of Longmont (Terracon Project No. 25127127). These site investigations consisted of the drilling and installation of monitoring wells along with soil and groundwater sampling and laboratory analysis for constituents typically associated with the production of oil and gas.

Terracon was retained in 2012 by COL to assess seventeen plugged and abandoned oil and gas wells located within the City of Longmont limits. The objective of the 2012 assessment was to provide information concerning the plugging and abandoning of 17 O&G wellheads located within the City of Longmont and to assess the potential presence of surficial soil impacts, methane and other gasses in the subsurface near the surveyed well locations. Results of this investigation were issued in Terracon's Research Summary Report, dated February 6, 2013.

On May 2, 2017, the Colorado Oil and Gas Conservation Commission (COGCC) issued a statewide Notice to Operators (NTO) directing operators to inspect their inventory of existing flowlines and verify that any existing flowline not in active use, regardless of when it was installed or taken out of service, is abandoned pursuant to COGCC Rule 1103. Terracon performed soil, groundwater, and soil gas investigation activities at the Tabor #7 site for COL as detailed in the Investigation Report, dated December 14, 2017.

The objective of the document review was to provide historical information concerning former and current operations and to assess any concern pertaining to sensitive receptors with relation to the well location and oil and gas production activities at the Tabor #7 O&G well located within the City of Longmont.

2.1 Reliance

This report has been prepared for the exclusive use of the City of Longmont, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of the City of Longmont and Terracon. Any unauthorized distribution or reuse is at the City of Longmont's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, report, and Terracon's Master Services Agreement (MSA) with the City of Longmont. The limitation of liability defined in the terms and conditions of the MSA is the aggregate limit of Terracon's liability to the City of Longmont and all relying parties unless otherwise agreed in writing.

2.2 Background Evaluation

Drilling at the Tabor #7 well (API Number 05-013-06232) was completed on October 10, 1986, and the well was drilled to 6,806 feet below ground surface (bgs). The surface casing was set at 474 feet bgs.

The Tabor #7 O&G well is currently a producing oil well. Records show the well has been producing since approximately 1986. There have been several changes of operators since the well was put into production, with the most current operator being K P Kauffman Company, Inc.

There are no records of any environmental violations.

The water well search findings indicate one domestic water well approximately 550 feet northeast (cross-gradient) of the wellsite. The well was installed in 1961 (well permit: 8318) and was reportedly owned by the Sisters of Saint Francis. The file did not include an abandonment report for the well. The well construction reports note the well was finished to 44 feet bgs. No additional records were available for review.

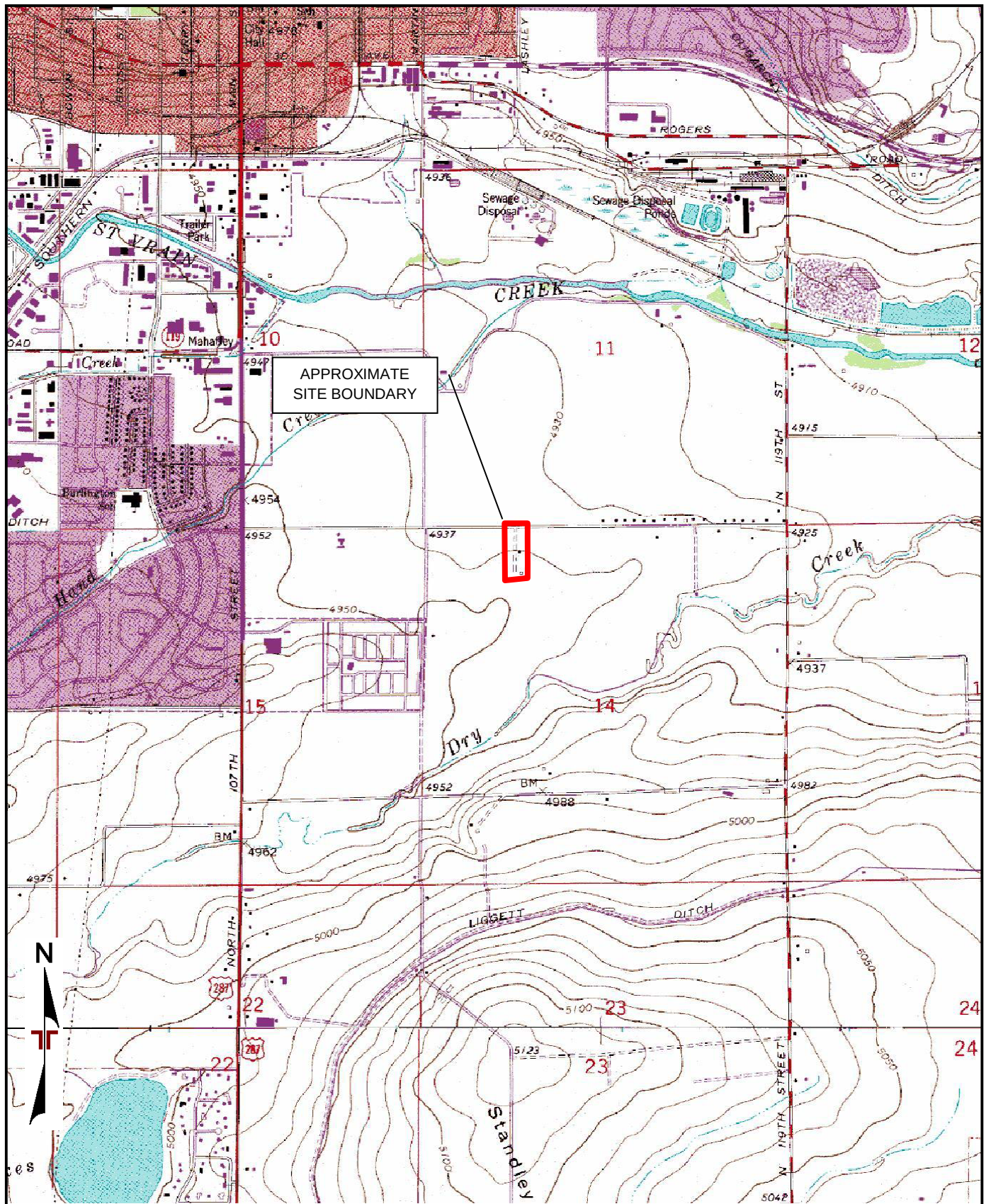
The nearest surface water body is Dry Creek, located approximately 1,500 feet up-gradient of the wellsite to the south.

Based on observations conducted during investigation activities and a review of COGCC documentation, no other site conditions or sensitive receptors were noted.

APPENDIX A – EXHIBITS

Exhibit 1 – Topographic Map

Exhibit 2 – Site Diagram



Project Manager:	MJS
Drawn by:	MJS
Checked by:	DAB
Approved by:	JCG
Project No.	22177040
Scale:	1"=2,000'
File Name:	22177040
Date:	12/05/2017

Terracon
 1242 Bramwood Pl
 Longmont, CO 80501-6100

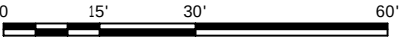
TOPOGRAPHIC MAP
Tabor #7 O&G Well Site Investigation Longmont, CO

Exhibit
1



LEGEND	
 MW-01	MONITORING WELL
 SVP-01	SOIL VAPOR POINT

DIAGRAM IS INTENDED FOR GENERAL USE ONLY, AND IS NOT FOR CONSTRUCTION PURPOSES. LOCATIONS ARE APPROXIMATE.



Project Mngr: MJS	Project No. 22177040	 Consulting Engineers and Scientists 1242 BRAMWOOD PLACE PH. (303) 776-3921	SITE DIAGRAM		EXHIBIT No.
Drawn By: CPD	Scale: AS-SHOWN		TABOR #7 CITY OF LONGMONT LONGMONT, COLORADO		2
Checked By: MJS	File No. 22177040.DWG				
Approved By:	Date: 12.08.2017				
DAB					
		LONGMONT, CO 80501 FAX. (303) 776-4041			

APPENDIX B – RECEPTOR WORKSHEET

Receptor Worksheet
Tabor #7 Oil and Gas Well

Lease:	Tabor				
Well Number:	#7				
API Number:	05-013-06232				
Operator	K P Kauffman Company Inc.				
Sensitive Receptor Detail					
Receptor	Distance	Gradient ²	Direction	Type of Receptor	Comments
Surface Water Body:	1,500 feet	Up-Gradient	South	Creek	Dry Creek
Surface Water Body:	>0.50 mile	Down-Gradient	North	Creek	Left Hand Creek
Structure:	25 feet	Up/Cross-Gradient	West	Agricultural Field	In-use agricultural field
Structure:	1,050 feet	Up-Gradient	Southwest	Residential Neighborhood	
Water Well ¹ :	550 feet	Cross-Gradient	Northeast	Domestic Well - Unknown Status	Well Permit No. 8318, Installed in 1961, Owner: Sisters of St. Francis, 44-foot depth, no additional records.

1) Water well information obtained from the Colorado Department of Water Resources online database.

2) Site specific gradient determined from Terracon's Limited Soil, Groundwater, and Soil Gas Investigation (December 14, 2017).

* Additional site and receptor information obtained from Colorado Oil and Gas Conservation Commission (COGCC) online database.