



TRANSPORTATION DEPARTMENT
2525 13th Street • Boulder CO 80304
PO Box 471 • Boulder CO 80306
Phone: 303-441-3900
Fax: 303-441-4594

OFFICE USE

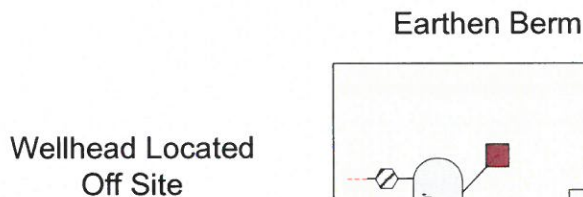
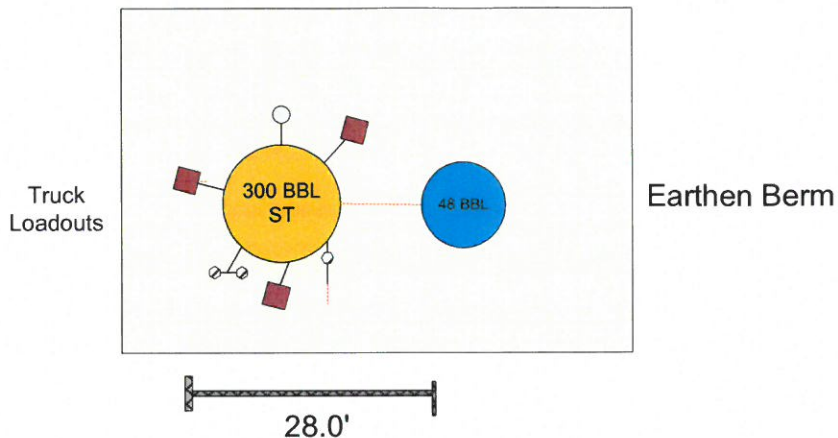
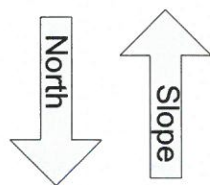
Floodplain Permit Number: FDP-16-034
Building Permit Number:
Docket Number:
Effective Date: 6/30/2016

FLOODPLAIN DEVELOPMENT PERMIT

OWNER AND PROPERTY INFORMATION		
Applicant/Owner Name: Extraction Oil and Gas		Phone: 7209747732
Address: 370 17th Street		Fax:
City: DENVER	State: CO	Zip: 80202
Engineer/Contractor Name: T&M Specialty Services		Phone: 3036598007
Address: 1392 Denver Avenue		Fax:
City: FORT LUPTON	State: CO	Zip: 80621
PROJECT INFORMATION		
Location of Development: 4702 N 109TH STREET		City: UNINCORPORATED
Section/Township/Range: 10/1N/69		
Permit Category: Oil and Gas		
Description of Development: Tank anchors and diversion fence to protect against flooding. Site name: Dawson 2-10. Lat/Long: 40.06128, 105.09568.		
REMODELS AND REDEVELOPMENT ONLY		
Cost of Improvement for this project:		
Value of Structure: (submit current (within 1 year) appraiser's valuation of structure)		
Percent Improvement:		
Substantial Improvement: <input type="checkbox"/> Yes <input type="checkbox"/> No (Yes, if cost of project \geq 50% of appraised valuation)		
If no, have other improvements been made to the structure since Sept. 11, 2013? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Cumulative Percent of All Improvements:		
Substantial Improvement: <input type="checkbox"/> Yes <input type="checkbox"/> No (Yes, if cost of improvements since Sept. 11, 2013 \geq 50% of appraised valuation)		
FLOODPLAIN INFORMATION		
Floodplain Name: Lower Boulder Creek, Muller Engineering Company, January 1983		Station No.:
FEMA Flood Zone Designation: A, AE, AO - 1% annual chance floodplain		
Base Flood Elevation:		<input type="checkbox"/> NGVD (29) <input type="checkbox"/> NAVD (88)
Flood Protection Elevation:		<input type="checkbox"/> NGVD (29) <input type="checkbox"/> NAVD (88)
Floodway: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If yes, please submit Engineers report addressing those standards set forth in Article 4-407)		
<input type="checkbox"/> Title Report <input type="checkbox"/> Floodway Analysis <input checked="" type="checkbox"/> Permit Advertised <input type="checkbox"/> Cross Section		
<input type="checkbox"/> Description of extent to which water course will be altered		

REGULATORY REQUIREMENTS			
Structure is:	<input type="checkbox"/> Elevated	<input type="checkbox"/> Floodproofed	<input type="checkbox"/> Vented <input checked="" type="checkbox"/> n/a
Elevation and/or Floodproofing Certificate:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
If floodproofed, describe method:			
Lowest floor elevation:	<input type="checkbox"/> NGVD (29)		<input type="checkbox"/> NAVD (88)
Elevation of garage slab:	<input type="checkbox"/> NGVD (29)		<input type="checkbox"/> NAVD (88)
Lowest elevation of HVAC equipment (and other mechanical equipment):	<input type="checkbox"/> NGVD (29)		<input type="checkbox"/> NAVD (88)
Enclosed area (not floodproof or elevated): square feet			
Number of Vents:		Area of vents: square inches	
FOR STRUCTURES: Attach building plans showing foundation design, flood elevation, floor elevations, HVAC and other mechanical equipment elevations, size and location of vents, floodproofing design and other relevant information that address those standards set forth in Article 4-407.			
FOR SITE WORK: Attach site and grading plans and other relevant information. All plans must be stamped and signed by a Colorado Registered Professional Engineer			
CONDITIONS			
1. The project shall be constructed in accordance with, and limited to, the work contained in the Floodplain Development Permit application submitted by Extraction Oil and Gas and submitted 27 May 2016, except where superseded by plans submitted 6 June 2016.			
2. The applicant shall obtain all necessary local, state, and federal permits prior to beginning work.			
3. While not in use, construction equipment, materials, and waste should not be located within the regulatory floodplain.			
4. This Floodplain Development Permit shall expire two years after the date of issuance if the permittee has not commenced construction under the permit.			
5. Upon completion of the project, the applicant will submit photos of the completed work. The permit will be closed out upon receipt of the photos.			
REQUIRED FOR PERMIT CLOSEOUT			
<input type="checkbox"/> As-built survey with PE/PLS stamp	<input type="checkbox"/> Letter with PE/PLS stamp	<input type="checkbox"/> Letter	
<input checked="" type="checkbox"/> Photographs	<input type="checkbox"/> FEMA Elevation Certificate	<input type="checkbox"/> Other	
<input type="checkbox"/> LOMR	Other:		
CERTIFICATION			
I certify that the above information is correct and agree to construct this building in accordance with the plat, building plans and specifications submitted, and in strict compliance with all the provisions of the Zoning Ordinance, Building Code, and Health and Plumbing Regulations of Boulder County.			
SIGNATURES			
Signature of applicant: <i>Patricia J. Varra</i>		Date: <i>6/30/16</i>	
Printed Name: <i>Patricia J. Varra</i>			
Signature of floodplain administrator: <i>Vanda Blum</i>		Date: <i>6/30/16</i>	

Facility Diagram



Anchors and diversionary structures are approximate and may be adjusted based on field conditions and underground utility locates.

Flowline locations are representative only.

Flood response equipment has been installed with COGCC Rule 603.h requirements. For complete flood response procedures see Extraction's Flood Response Plan.

Extraction Oil & Gas, LLC

Dawson 2-10
Sec.10 T1N R69W
Boulder County, Colorado

- = Flood Response Anchors
- = Flood Diversion Barrier
- = Crude Oil Tank
- = Valve
- = Surface Flowline
- = Underground Flowline
- = Prod. Water Container

PREPARED FOR:



PREPARED BY:



