



CVL CONSULTANTS OF COLORADO, INC.
CIVIL ENGINEERING • LAND SURVEYING

July 17, 2012

Sue Liu, PE
Arapahoe County
Public Works and Development
Engineering Services Division
6924 South Lima Street
Centennial, CO 80112

**RE: Tebo 1-1H Well Site
Use by Special Review
Drainage Compliance Letter
Arapahoe County Pre-submittal Case No. Q12-037
CVL Project No. 8.13.0201601**

To Ms. Liu:

The Tebo 1-1H well site is located northeast of the Airline Road and East Quincy Avenue intersection, in Section 1, Township 5 South, Range 64 West. Proposed improvements, including a graded 400' x 400' flat pad site and a 16' wide gravel access road, will be constructed in support of drilling an oil well.

The landscape could be characterized as open range land. The existing topography generally drains from the southwest corner to the northeast corner of the pad site at an existing grade of approximating 5.3%. The access road topography drains from west to east along the 350' access road route. The site is located in a watershed tributary to Kiowa Creek, by way of a western side tributary to that major drainageway. FEMA does not map this tributary with a 100 year floodplain. There are no springs or irrigation ditches on the site. No other non-stormwater sources are contemplated at this project site.

Airline Road is located on a ridge line, so there is little drainage conveyed across the improvements. Two 18" diameter CMP culverts are proposed. One conveys drainage in the roadside ditch at Airline Road. The other conveys drainage from the diversion ditch at the toe of the well pad's cut slope under the access road. Please refer to the attached exhibit.

No adverse short term or long term drainage impacts resulting from the construction of the pad site or access road are anticipated to the floodplain.

If you have any questions regarding the stormwater drainage associated with this project, please do not hesitate to call me at 720.249.3539.

Sincerely,
CVL Consultants of Colorado, Inc.

Melinda E. Lundquist, PE, LEED AP
Senior Project Manager

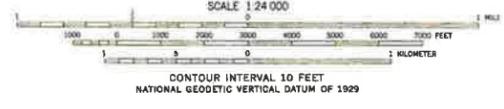
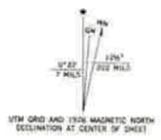
cc: Wayne McCreech, ConocoPhillips Company
Maxwell Blair, ConocoPhillips Company





*Tebo
1-14*

Mapped, edited, and published by the Geological Survey as part of the Department of the Interior Program for the development of the Missouri River Basin. Control by USGS and NOS/NOAA. Culture and drainage compiled from aerial photographs taken 1950. Topography by planimetric surveys 1955. Polyconic projection. 1927 North American datum. 10,000-foot grid based on Colorado coordinate system central and north zones. 1000-meter Universal Transverse Mercator grid ticks, zone 13, shown in blue. Revisions shown in purple compiled from aerial photographs taken 1975 and other source data. This information not field checked. Map edited 1978.



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



ROAD CLASSIFICATION

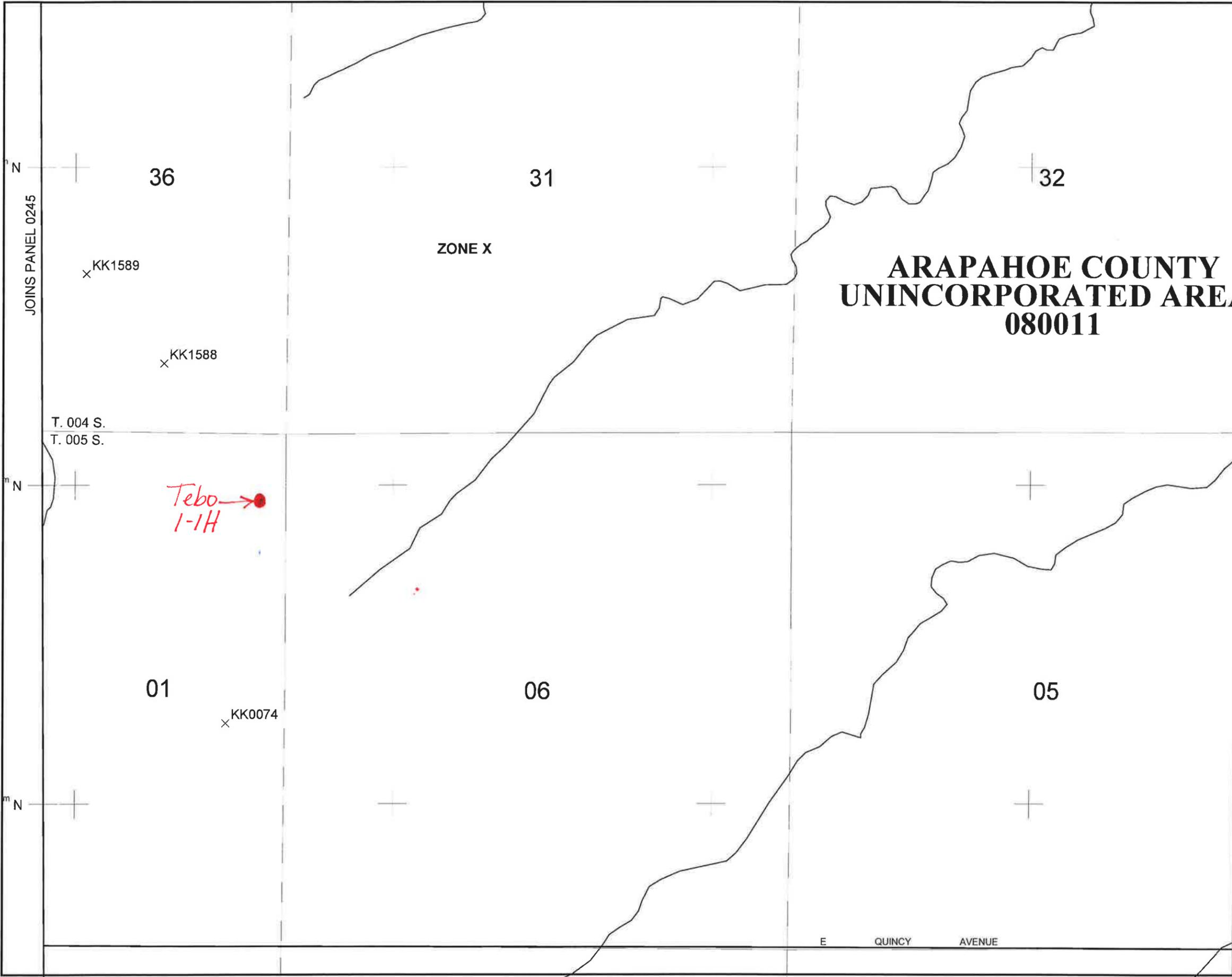
- Heavy-duty ———
- Medium-duty ———
- Light-duty ———
- Unimproved dirt ———

U.S. Route (circle with number)
State Route (circle with number)
Interstate Route (circle with number)

USGS
STRASBURG NW, COLO.
N3937.5-W10422.5/7.5
1955
PHOTOGRAPHED 1978
DMA 5163 (31-W)-SERIES V877

FEB - 5 1980
1880

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80226, OR RESTON, VIRGINIA 22092. A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST.



**ARAPAHOE COUNTY
 UNINCORPORATED AREA
 080011**

PANEL 0265K

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM
 FLOOD INSURANCE RATE MAP
 ARAPAHOE COUNTY,
 COLORADO
 AND INCORPORATED AREAS**

PANEL 265 OF 725
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)
 CONTAINS:

| COMMUNITY | NUMBER | PANEL | SUFFIX |
|-----------------|--------|-------|--------|
| ARAPAHOE COUNTY | 080011 | 0265 | K |

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



**MAP NUMBER
 08005C0265K
 MAP REVISED
 DECEMBER 17, 2010**

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov