



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
2601 Meacham Boulevard
Fort Worth, TX 76137

Aeronautical Study No.
2012-ANM-837-OE

Issued Date: 06/21/2012

Clayton Doke
High Sierra Water Services, LLC
8207 W. 20th St., Suite B
Greeley, CO 80634

****DETERMINATION OF NO HAZARD TO AIR NAVIGATION FOR TEMPORARY STRUCTURE****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Drilling Rig Ensign Rig #14 - SWD #C4B
Location:	Greeley, CO
Latitude:	40-27-09.11N NAD 83
Longitude:	104-37-39.57W
Heights:	4682 feet site elevation (SE) 143 feet above ground level (AGL) 4825 feet above mean sea level (AMSL)

This aeronautical study revealed that the temporary structure does exceed obstruction standards but would not be a hazard to air navigation provided the following condition(s), if any, is (are) met:

As a condition to this Determination, the structure is marked/lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, flags/red lights - Chapters 3(Marked),4,5(Red),&12.

See attachment for additional condition(s) or information.

This determination expires on 02/21/2013 unless extended, revised or terminated by the issuing office.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates and heights. Any changes in coordinates and/or heights will void this determination. Any future construction or alteration, including increase to heights, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of a structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination did not include an evaluation of the permanent structure associated with the use of this temporary structure. If the permanent structure will exceed Title 14 of the Code of Federal Regulations, part 77.9, a separate aeronautical study and FAA determination is required.

This determination concerns the effect of this temporary structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

A copy of this determination will be forwarded to the Federal Aviation Administration Flight Procedures Office if the structure is subject to the issuance of a Notice To Airman (NOTAM).

If you have any questions, please contact our office at (816) 329-2508. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2012-ANM-837-OE

Signature Control No: 161509744-167506249

(TMP)

Vee Stewart
Specialist

Attachment(s)
Additional Information
Map(s)

Abbreviations:

CAT, Category
CFR, Code of Federal Regulations
GPS, Global Positioning System
ILS, Instrument Landing System
LOC, Localizer
MDA, Minimum Descent Altitude
MSL, Mean Sea Level
NM, Nautical Miles
NOTAM, Notice to Airmen
RNAV, Area Navigation
RWY, Runway
TERPS, Terminal Instrument Procedures
TRACON, Terminal Radar Approach Control
VOR, VHF Omnidirectional Radio Range System

The temporary drilling rig would be located approximately 5,720 feet (0.94 NM) north of the Airport Reference Point for the Greeley-Weld County Airport (GXY), Greeley, CO. It is identified as exceeding 14 CFR, Part 77 obstruction standards as follows as applied to GXY:

Section 77.17(a)(3): A height that increases a minimum instrument flight altitude within a terminal area (TERPS criteria). It would:

Increase the ILS OR LOC RWY 34 Circling CAT A MDA from 5120 feet MSL to 5180 feet MSL and CAT B MDA from 5160 feet MSL to 5180 feet MSL.

Increase the RNAV (GPS) RWY 27 Circling CAT A MDA from 5120 feet MSL to 5180 feet MSL and CAT B MDA from 5160 feet MSL to 5180 feet MSL.

Increase the RNAV (GPS) RWY 34 Circling CAT A MDA from 5120 feet MSL to 5180 feet MSL and CAT B MDA from 5160 feet MSL to 5180 feet MSL.

Increase the VOR-A (WESAR Fix) Circling CAT A MDA from 5120 feet MSL to 5180 feet MSL and CAT B MDA from 5160 feet MSL to 5180 feet MSL.

Increase the RNAV (GPS) RWY 16 Circling CAT A MDA from 5140 feet MSL to 5180 feet MSL and CAT B MDA from 5160 feet MSL and 5180 feet MSL.

Section 77.17(a)(5): The surface of a takeoff and landing area of an airport or any imaginary surface established under 77.19, 77.21, or 77.23; a height exceeding the transition surface, would exceed the Runway 16/34 transitional surface by up to 33 feet.

The construction equipment does not constitute substantial adverse effect because the structure(s) would be temporary. The equipment would not be a hazard to air navigation provided the conditions specified within this determination are strictly met.

Additional Conditions:

It is REQUIRED that that the Airport Authority of Greeley-Weld County Airport, Greeley, CO at Denver Centennial Airport, Denver, Co at 970-336-3000 be notified at least 3 full business days prior to the temporary structure being erected and again when the structure is removed from the site.

It is REQUIRED that David F. Riley, Support Specialist, Denver TRACON, Denver, CO at 303-342-1546 be notified at least 3 full business days prior to the temporary structure being erected and again when the structure is removed from the site.

The proponent shall notify the OE Specialist or the Alternate 5 full business days prior to initially raising the temporary crane so a NOTAM can be issued modifying the instrument flight procedures. **DO NOT LEAVE THIS MESSAGE ON VOICEMAIL!** It is critical that this information be acted on immediately. The crane may not be raised until 5 days after this personal verbal contact is completed.

Vee Stewart, OE Specialist (vee.stewart@faa.gov), (816) 329-2508
Tameria Burch, OE Alternate (tameria.burch@faa.gov), (310) 725-6591

The 5 full business day notification can be made to Vee and Tameria using e-mail. Please receipt the message. It will be your responsibility to ensure that the message is retrieved in compliance with this determination.

The OE Specialist or Alternate shall also be contacted immediately when the work is completed and personnel/crane have been moved from the work site so the instrument flight procedures can be returned to their normal level.



