

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite #01, Denver, Colorado #0203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY

EARTHEN PIT REPORT/PERMIT

This form is to be used for both reporting and permitting pits. Rule 903 describes when a Permit with prior approval, or a Report within 30 days, is required for pits. Submit required attachments and forms.

Complete the Attachment Checklist

FORM SUBMITTED FOR:

Pit Report Pit Permit

Oper OGCC

Detailed Site Plan	X	
Topo Map w/ Pit Location	X	
Water Analysis (Form 25)	NA	
Source Wells (Form 26)	NA	
Pit Design/Plan & Cross Sec	X	
Design Calculations	X	
Sensitive Area Determ.	X	
Mud Program	NA	
Form 2A	NA	

OGCC Operator Number: 96850
 Name of Operator: Williams Production RMT
 Address: 1058 County Rd 215
 City: Parachute State: CO Zip: 81635

Contact Name and Telephone:
Karolina Blaney
 No: 970 683-2295
 Fax: (970) 285-9573

API Number (of associated well): _____ OGCC Facility ID (of other associated facility): _____
 Pit Location (Qtr Qtr, Sec, Twp, Rng, Meridian): NE NW T6S R95W, Section 28 6TH PM
 Latitude: 39.499583 Longitude: -108.005167 County: Garfield
 Pit Use: Production Drilling (Attach mud program) Special Purpose (Describe Use): Flare Pit
 Pit Type: Lined Unlined Surface Discharge Permit: Yes No
 Offsite disposal of pit contents: Injection Commercial Pit/Facility Name: W 43-28 Pit/Facility No: _____
Attach Form 26 to identify Source Wells and Form 25 to provide Produced Water Analysis results.

Existing Site Conditions

Is the location in a "Sensitive Area?" Yes No **Attach data used for determination.**
 Distance (in feet) to nearest surface water: 119 ground water: 130 water wells: 3671
LAND USE (or attach copy of Form 2A if previously submitted for associated well) Select one which best describes land use:
 Crop Land: Irrigated Dry Land Improved Pasture Hay Meadow CRP
 Non-Crop Land: Rangeland Timber Recreational Other (describe): _____
 Subdivided: Industrial Commercial Residential
SOILS (or attach copy of Form 2A if previously submitted for associated well)
 Soil map units from USNRCS survey: Sheet No: NA Soil Complex/Series No: 62
 Soils Series Name: ROCK OUTCROP Horizon thickness (in inches): A: 0-60 ; B: ; C:
 Soils Series Name: TORRIORTHENTS Horizon thickness (in inches): A: 0-4 ; B: 4-30 ; C: 30-34
Attach detailed site plan and topo map with pit location.

Pit Design and Construction

Size of pit (feet): Length: 10 Width: 10 Depth: 5
 Calculated pit volume (bbls): 50 Daily inflow rate (bbls/day): NA
 Daily disposal rates (attach calculations): Evaporation: NA bbls/day Percolation: NA bbls/day
 Type of liner material: NA Thickness: NA
Attach description of proposed design and construction (include sketches and calculations).
 Method of treatment of produced water prior to discharge into pit (separator, heater treater, other): NA
 Is pit fenced? Yes No Is pit netted? Yes No

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Karolina Blaney Signed: Karolina Blaney
 Title: Environmental Specialist Date: 8/9/10

OGCC Approved: _____ Title: _____ Date: _____

CONDITIONS OF APPROVAL, IF ANY:

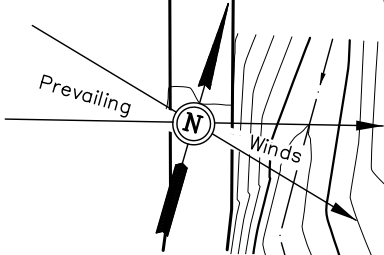
FACILITY NUMBER:

Topo Map with Pit Location

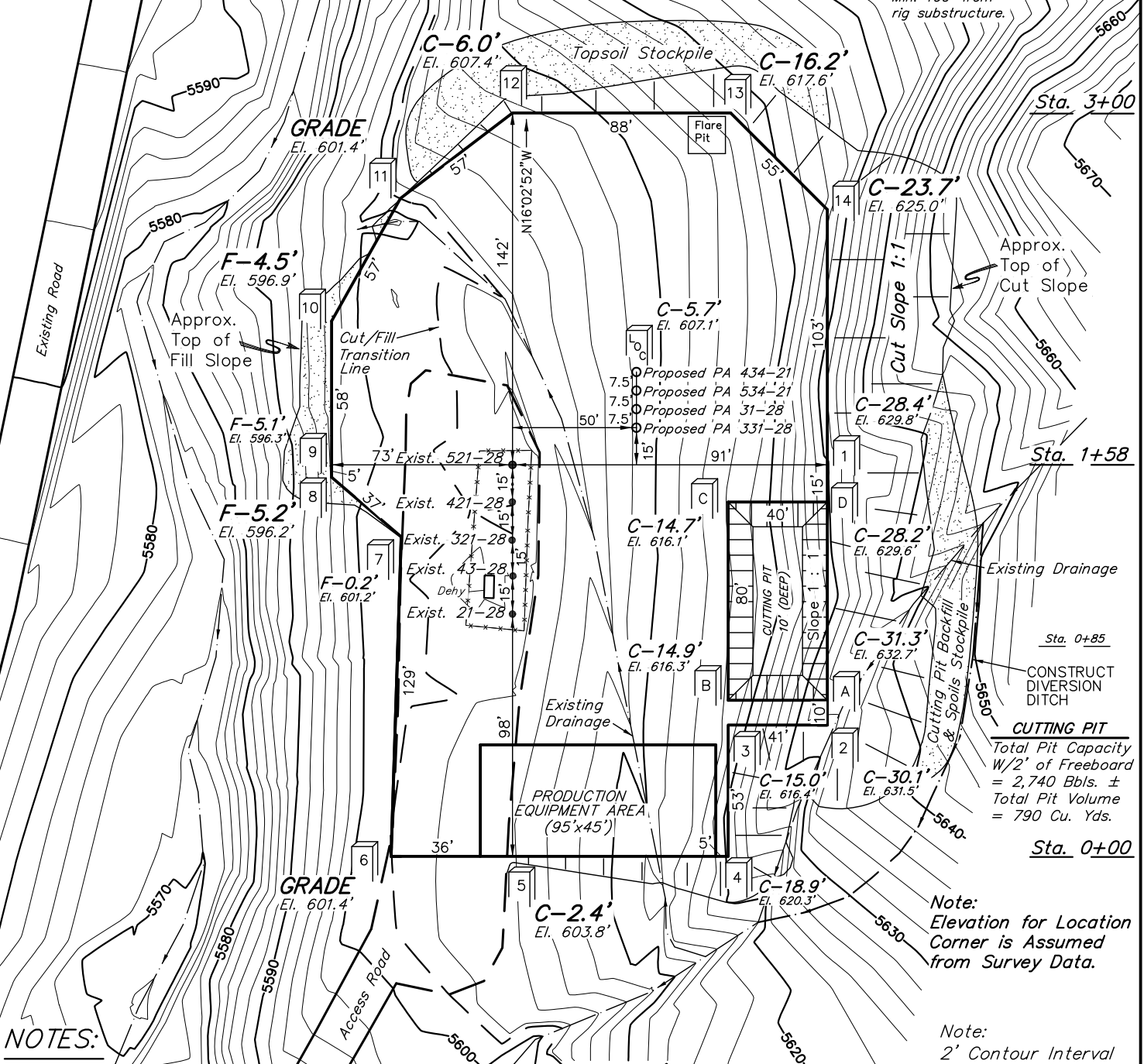
Detailed Site Plan

WILLIAMS PRODUCTION RMT COMPANY

PLAT #2_LOCATION LAYOUT FOR W43-28
SECTION 28, T6S, R95W, 6th P.M.



SCALE: 1" = 60'
DATE: 05-29-08
Drawn By: D.R.B.
Revised: 08-26-09 D.R.B.
Revised: 09-30-09 D.R.B.
Revised: 10-02-09 D.R.B.
Revised: 11-23-09 D.R.B.
Revised: 11-25-09 D.R.B.
Revised: 02-27-10 D.R.B.



NOTES:

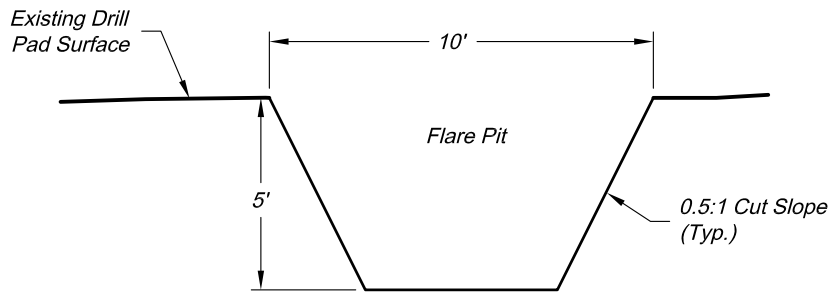
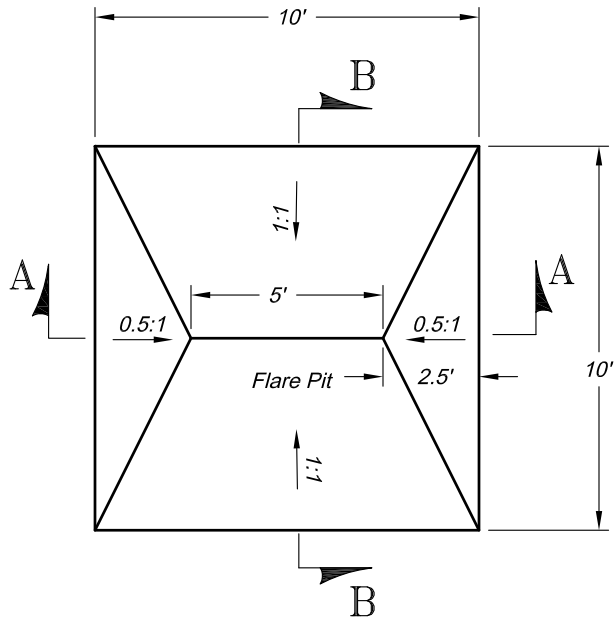
Elev. Ungraded Ground At PA 331-28 of Location Stake = **5607.3'**
FINISHED GRADE ELEV. AT PA 331-28 of Location Stake = **5601.4'**

Note:
Elevation for Location
Corner is Assumed
from Survey Data.

Note:
2' Contour Interval

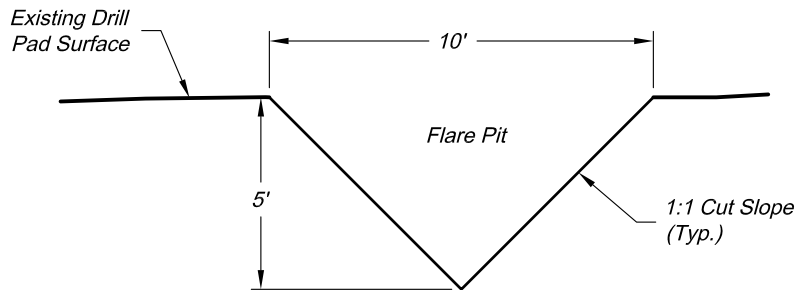
CUTTING PIT
Total Pit Capacity
W/2' of Freeboard
= 2,740 Bbbls. ±
Total Pit Volume
= 790 Cu. Yds.

Pit Design/Plan and Cross Section
Design Calculations



Section A

Scale: 1" = 5'



Section B

Scale: 1" = 5'

Total Volume ~ 50bbls

Revised date: 8/11/09

Construction Plan Prepared for:

Williams Williams Production, RMT

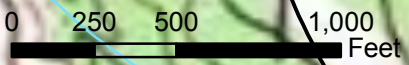
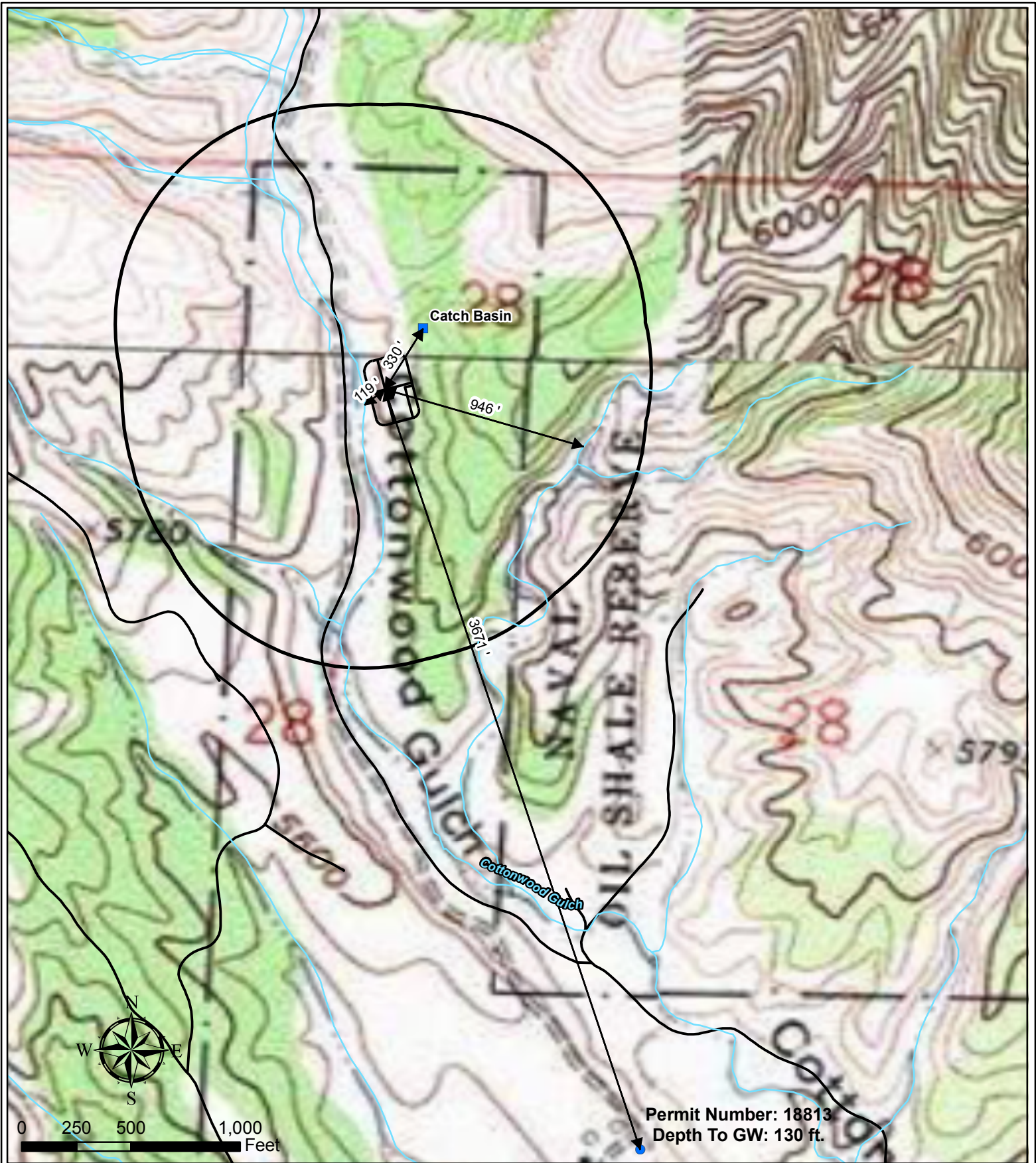
136 East Third Street
Rifle, Colorado 81650
Ph. (970) 625-1330
Fax (970) 625-2773



SCALE:	1" = 5'
DATE:	5/15/09
SHEET:	1 of 1
PROJECT:	Williams
DFT:	cws

10' x 10' FLARE PIT
WILLIAMS STANDARD DETAIL

Sensitive Area Determination



Legend

- Water Well
- Stream
- Existing Road
- 1000' Buffer
- Pad

Williams Production RMT

Plat 5C

W 43-28 Hydrology Map
T6S R 95W Section 28



Sensitive Area Determination Checklist

Williams Production RMT Company – Valley		
Person(s) conducting inspection	Mark E. Mumby	10/2/2009
Site Information		
Location:	W 43-28 well pad	Time: 12:15
Site Activity:	Producing well pad	
Personnel on-site:	None	
Environmental Conditions	Clear, cool, calm winds, dry soil conditions	
Temperature (°F)	~65	

1. Will the pit of the proposed facility contain hydrocarbons and chlorides or other E&P wastes?

X Yes No (*If no, this form does not need to be completed.*)

If yes, list pit type(s): Drilling, Flare pits

SURFACE WATER

1. Are there any surface water features or SWSAs adjacent to or within the ¼ mile buffer zone?

X Yes No (*If no, move to Groundwater section of this checklist.*)

If yes, list type of surface water feature(s), i.e. seeps, springs, wetlands:

Cottonwood Gulch-perennial stream, two unnamed ephemeral drainages, and numerous small drainage features.

If yes, describe location relative to facility:

Cottonwood Gulch is adjacent to the west edge of the existing pad and planned new pad. One of the unnamed ephemeral drainages is north of the existing and planned pad approximately 130 to 150 feet. The other unnamed ephemeral drainage is adjacent to the southeast corner of the pad. The numerous small unnamed drainage features are on the hillside adjacent to the east side of the existing pad.

2. Could a potential release from the proposed facility reach surface water features?

X Yes No (*If no, move to Groundwater section of this checklist.*)

If yes, describe the pathway a release from facility would likely follow to determine if the potential to impact surface water is high or low.

The pathway with the greatest potential to reach surface water would be off the west side of the pad which is adjacent to Cottonwood Gulch. Depending on how the pad is constructed and the size, a release from the facility could also impact the two unnamed

ephemeral drainages to the north and south of the existing and planned pad, both of which would flow directly into Cottonwood Gulch.

3. Is the potential to impact surface water from a facility release high or low?
X High Low

GROUNDWATER

1. Is the site of the proposed facility underlain by an unconfined aquifer?
 Yes No (*If no, this section does not need to be completed.*)

2. Is the hydraulic conductivity of the underlying soil or bedrock $\geq 1.0 \times 10^{-7}$ cm/sec?
 Yes (*If yes, this section does not need to be completed.*) No

3. Is the proposed facility located within 1/8 mile of a domestic water well or 1/4 mile of a public water supply well?
 Yes No (*If no, this section does not need to be completed.*)

4. Is the proposed facility located within a 100 year floodplain?
 Yes (*Sensitive Area*) No (*If no, proceed to question #5.*)

5. Is the depth to groundwater known?
 Yes No (*If no, follow instructions provided in 5(b) of this section.*)
 - (a) If yes, could a potential release from the proposed facility reach groundwater?
 Yes No (*If no, this section does not need to be completed.*)
If yes, model the hydro geologic conditions to determine if the potential to impact groundwater is high or low.

 - (b) If no:
 - (i) Drill a soil boring to determine depth to groundwater.
 - (ii) Evaluate subsurface data to determine if confining layers exist.
 - (iii) Model hydro geologic conditions to determine if the potential to impact groundwater is high or low.

6. Is the potential to impact ground water from a facility release high or low?
 High Low


Additional Comments:

Based on surface observations of the areas west of the existing pad; there is a potential that shallow groundwater is present in the immediate vicinity of Cottonwood Gulch. This is based on the vegetation present i.e. cottonwood trees and tamarisk. However it appears that when the new pad is constructed, a vast majority of it will be built into solid bedrock and the potential for any migration of fluids in the bedrock would be low but possible if fractures are present.

The main concern is the potential for a release from the facility to impact surface water due to the close proximity of Cottonwood Gulch and the unnamed ephemeral drainages. There is a diversion trench constructed on the east side of the pad to keep surface water runoff from the



hillside from impacting the pad. This should be left in place if at all possible. Based on the conditions present at this location it should be designated as being in a sensitive area.

Inspector(s) Signature(s):  Date: 10/2/2009
_____ Date: _____