



Legend

- Water Well
- Pad
- Stream
- 1000' Buffer

Williams Production RMT

Plat 5C

MV 29-27 Hydrology Map
T6S R96W, Section 27



Hydrology and Channel Design Summary

Peak Discharge

Drainage Basin (acres): 70.9
25-year Storm (in.): 1.27
Rational C Factor: 0.3

Channel Size

(4' bottom x 2' depth: 2H:1V side slopes)

Manning's n: 0.03
Slope: 0.01
Channel Type: Natural
Channel Shape: Trapezoid

Rational Method Peak

Discharge Estimate (cfs): 27

Flow Capacity of Channel

Full (cfs) 91.6

USACE Summary

Drainage work qualifies, as per 33 CFR Part 330, for a NWP 18 - Minor Discharges. Williams Production RMT shall comply with the USACE Nationwide Permit General Conditions, dated March 19, 2007 and 2007 Regional Conditions. No PCN required for disturbances less than 1/10 acre and fills less than 10 cubic yards. Estimated surface disturbance = 0.05 acres. Estimated fill = 8.25 cubic yards.

Calculations: Fox Engineering
Base Map: Del-Mont Consultants

4/30/2010

