

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
RECORD OF INSPECTION OF DAM

Name of Dam: Point of Rock

Stream: Marsh Creek

☐ Offstream

Name of Owner: Six S Ranch LLC

Location: NWSE ¼ Section 15 (11S, R25E)

Individuals Accompanying Inspector: Pat McCammon & Chris Winn of Six S Ranch

Reservoir Characteristics: Dam Height: 23 feet

Surface Area: 42 acres

Storage Capacity: 358 ac-ft

Hazard Classification: Significant

Photographs: Attached

CONDITION OF EMBANKMENT OR STRUCTURE: ☐ - Poor ☐ - Fair ☐ - Good ☒ - Excellent

TYPE : ☒ - Earth ☐ - Rockfill ☐ - Conc. Arch ☐ - Conc. Gravity ☐ - Timber Crib ☐ - Other _____

	UPSTREAM SLOPE	CREST	DOWNSTREAM SLOPE	TOE AREA
SURFACE COVER MATERIAL	Rip Rap	Gravel	Earth	Earth
GROWTH	Minor weeds	None	None	Some weeds
SETTLEMENT Or CRACKS	None	None	None	None
SURFACE EROSION	None	None	None	None
DEBRIS	Minor driftwood	None	None	None
ANIMAL BURROWS	None	None	None	None
CREST WIDTH AND SLOPE MEASUREMENTS	3.3 : 1	35 feet	2.2 : 1	

CONDITION OF OUTLET WORKS: ☐ - Poor ☐ - Fair ☐ - Good ☒ - Excellent

Location: ☐ - Left Side ☒ - Center ☐ - Right Side ☐ - Other _____

Description and Condition:

Three 24 inch diameter concrete outlet conduits (low level outlet, canal outlet, and fish ladder outlet)

Gate Hoist: ☒ - Manual ☐ - Electric ☐ - Other _____

Stem: ☐ - Inclined from entrance to crest ☐ - Vertical on tower at entrance

☒ - Vertical through dam crest ☐ - Downstream valve

Entrance: clear

Outlet: clear

CONDITION of SPILLWAY: ☐ - Poor ☐ - Fair ☐ - Good ☒ - Excellent

Location: ☐ - Left abutment ☐ - Right abutment ☐ - Away from dam ☒ - Other Near left end of dam

Base width: 18 feet Freeboard at crest: 7.2 feet Sideslope: vertical Channel slope: Varies

Over flow channel: ☒ - Well defined ☒ - Flow directed away from toe ☐ - Flow could reach toe

Erosion control present: Concrete

Erosion present: In channel below structure

Maintenance condition: Debris None

Growth None

SEEPAGE:File No. 45-0257-insp1-05Reservoir level during inspection: 4497.8 (just below spillway crest)

	TOE AREA	DOWNSTREAM SLOPE	ABUTMENTS	OTHER
Piping of material Evident (Est. G.P.M.)	None	None	None	
Flowing water (Est. G.P.M.)	None	None	None	
Marshy or Standing water	None	None	None	
Damp	Area noted earlier this year	None	None	
Evident from Growth present	Area noted earlier this year	None	None	

GENERAL CONDITION AND DESCRIPTION OF DAM:

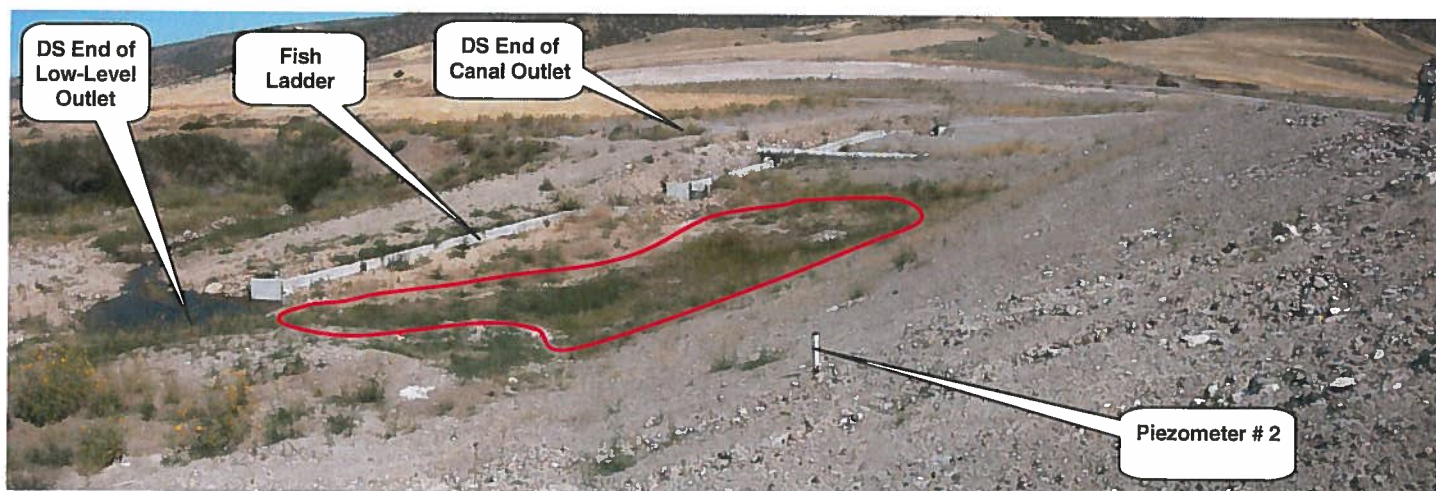
Dam constructed last year. Overall, due to recent construction, the dam and appurtenant works are in excellent condition. Dam experienced a large runoff event earlier this year with spillway flow depth at about four feet (reservoir level at 4502). Piezometer readings indicate higher water elevations than what was expected by the dam's design engineers. Some seepage has also appeared along the toe and was monitored earlier this year, but has basically dried up this summer. Some seepage flow was observed entering the outlet discharge area (see photo).

INSTRUMENT READINGS (Piezometer, Seepage measurements, Alignment, Elevation, etc.)None**RECOMMENDATIONS:**Authorize storage for two-year period.DATE: Inspected August 25, 2005INSPECTED BY: Corey Skinner



ABOVE: View from the left (west) abutment area showing the crest, downstream slope, and the area below the dam with the locations of various points of interest indicated.

BELOW: View looking across the downstream slope of the dam, towards the toe of the dam and the area below the dam. Note the green growth in the circled area from the seepage that was noted earlier this year. During this inspection, the seepage area was no longer flowing water, but was observed to still be damp. The location of Piezometer # 2 (middle piezometer) is indicated in the foreground of this view.





ABOVE: View of the dam crest and the upstream slope of the dam from near the left (west) end of the dam with the locations of various points of interest indicated.

BELOW: View of the upstream slope of the dam from near the fish ladder outlet intake showing the reservoir level at the time of the inspection.





ABOVE: View looking up the spillway channel towards the concrete spillway structure and the downstream slope of the dam. Earlier this year, the dam experienced a large runoff event with spillway flow depth at about four feet (reservoir level at 4502). Note some erosion of along the right (left in photo) side of the spillway channel in the area indicated by arrows.

BELOW: View from the dam crest looking down the concrete spillway structure, and further down the spillway channel below the spillway structure. Note the missing energy dissipater in the location indicated by the arrow.





ABOVE: View of the low-level outlet and fish ladder discharge basin looking back towards the downstream slope of the dam. The drainpipe, which drains the concrete manhole structure for the low-level outlet, was dripping a small amount of water. The water in the discharge basin was fairly stagnant, but close examination revealed flowing water (seepage) at the locations indicated by the arrows.

BELOW: View of the dam crest from the left (west) end of the dam.

