

JERNIGAN CANAL FIELD NOTES

Map:

<http://mapper.acme.com/?ll=32.83835,-109.81483&z=15&t=5&marker0=32.82765%2C-109.81951%2C6.2%20km%20WxSW%20of%20Thatcher%20AZ&marker1=32.82918%2C-109.81887%2C6.1%20km%20WxSW%20of%20Thatcher%20AZ&marker2=32.83011%2C-109.81811%2C6.0%20km%20WxSW%20of%20Thatcher%20AZ&marker3=32.83692%2C-109.81497%2C5.4%20km%20WxSW%20of%20Thatcher%20AZ&marker4=32.83941%2C-109.81417%2C5.3%20km%20WxSW%20of%20Thatcher%20AZ&marker5=32.84017%2C-109.81272%2C5.2%20km%20W%20of%20Thatcher%20AZ&marker6=32.84290%2C-109.81267%2C5.1%20km%20W%20of%20Thatcher%20AZ&marker7=32.84283%2C-109.81448%2C5.3%20km%20W%20of%20Thatcher%20AZ&marker8=32.84214%2C-109.81474%2C5.3%20km%20W%20of%20Thatcher%20AZ&marker9=32.84273%2C-109.81546%2C5.4%20km%20W%20of%20Thatcher%20AZ&marker10=32.84211%2C-109.81603%2C5.4%20km%20W%20of%20Thatcher%20AZ>

USGS Topo Name: Thatcher, AZ 7.5'
Canal Length: 2 kilometers or 1.2 miles long
Canal Slope: 1.5 percent.
Nominal Size: 1 meter wide by 20 CM deep
Land Ownership: Arizona State Lands
Access: Foot and some 4WD track, moderately difficult.
Field Verified: Assumed 70 percent
Hanging Features: Impressive hanging portions, especially near field delivery.
Study Confidence: Very high.

Locations of interest:

N 32 49.659' W 109 49.170' Takein "headgate" off the Mud Springs Canal
N 32 49.751' W 109 49.132' Well defined area just west of 4WD Track
N 32 49.806' W 109 49.086' Route becomes indistinct and unknown
N 32 50.215' W 109 48.898' Credible waterbar crossing of W. Layton road
N 32 50.364' W 109 48.850' Possible western branch leading to aquaduct
N 32 50.347' W 109 48.926' Possible aquaduct or enigmatic historic construct
N 32 50.410' W 109 48.763' Well defined near recontact with Mud Springs
N 32 50.574' W 109 48.760' End of easily traced area
N 32 50.570' W 109 48.869' Canal resumes near possible cutout
N 32 50.550' W 109 48.871' Large Mesquite Tree mid channel
N 32 50.528' W 109 48.884' "U" turn at wash crossing
N 32 50.564' W 109 48.927' Significant hanging and fairly deep cut
N 32 50.526' W 109 48.962' French drain drop into fields

Significant features: Well defined branch of Mud Springs Canal
End use fields studied by Jernigan
Two large gaps in survey
Possible headgate structure
Possible branch aqueduct
Approaches Mud Springs canal very closely
Two hanging portions
Mesquite tree mid channel
Elaborate "S" and "U" turns to maintain grade
French Drain dropoff
Habitation sites nearby

more...

JERNIGAN CANAL FIELD NOTES, CONTINUED...

Images: (<http://www.tinaja.com/images/jern1.jpg>) **Jernigan near field**

Present work that needs done on the Jernigan Canal...

- **Resolve the route over the two missing pieces.**
- **Further interpret the possible headgate structure.**
- **Verify the credibility of the modern waterbar crossing.**
- **Determine the age and purpose of the potential aquaduct.**
- **Core date the mid channel Mesquite Tree.**
- **Resolve the possible cutout.**
- **Further study the French Drain.**
- **Investigate the fields for northern continuance.**
- **Study the relationship with nearby habitation structures.**