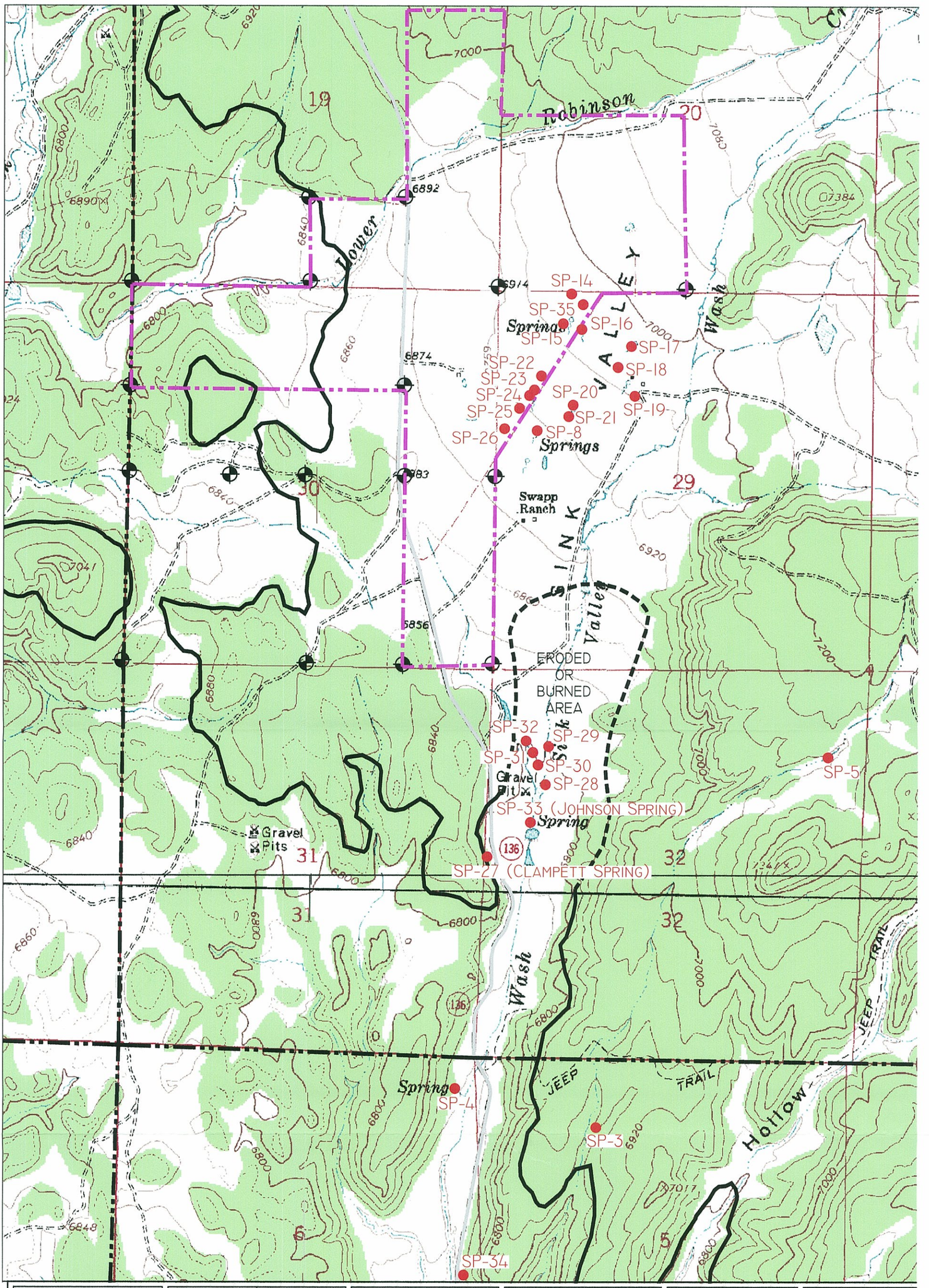

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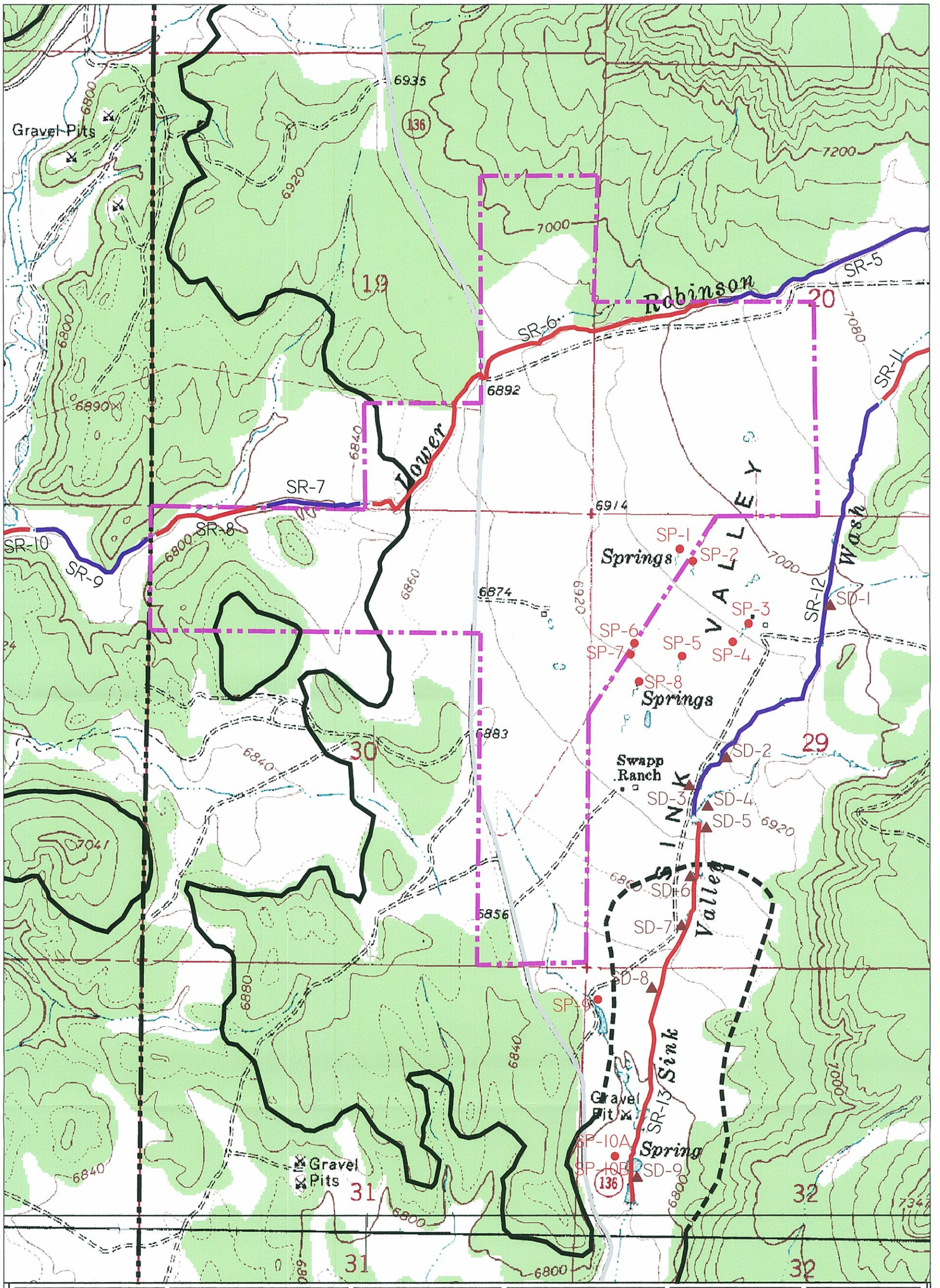
PROJECT AREA	N. BUTKOVICH	APC	DATE:	BY:	
COAL LINE BOUNDARY	DRAWING: 7-1	DATE: 6/6/06			COAL HOLLOW PROJECT ALTON, UTAH
COUNTY ROAD		SCALE: 1" = 1200'			DRAWING: 7-1
SURVEYED MONUMENT	JOB NUMBER: 1400	SHEET			

Registered Professional Engineer No. 144842 JOHN S. HUEFNER State of Utah 6-12-06

Coal Hollow Project
195 North, 100 West
P.O. Box 1230
Huntington, Utah 84528
Phone (435)687-5310
Fax (435)687-5311



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PROJECT AREA	N. BUTKOVICH	APC	DATE:	BY:		Registered Professional Engineer No. 144842 JOHN S. HUEFNER State of Utah	195 North, 100 West P.O. Box 1230 Huntington, Utah 84528 Phone (435)687-5310 Fax (435)687-5311
COAL LINE BOUNDARY	DRAWING: 7-3	DATE: 6/13/06			COAL HOLLOW PROJECT ALTON, UTAH		
COUNTY ROAD		SCALE: 1" = 1000'			DRAWING: 7-3		
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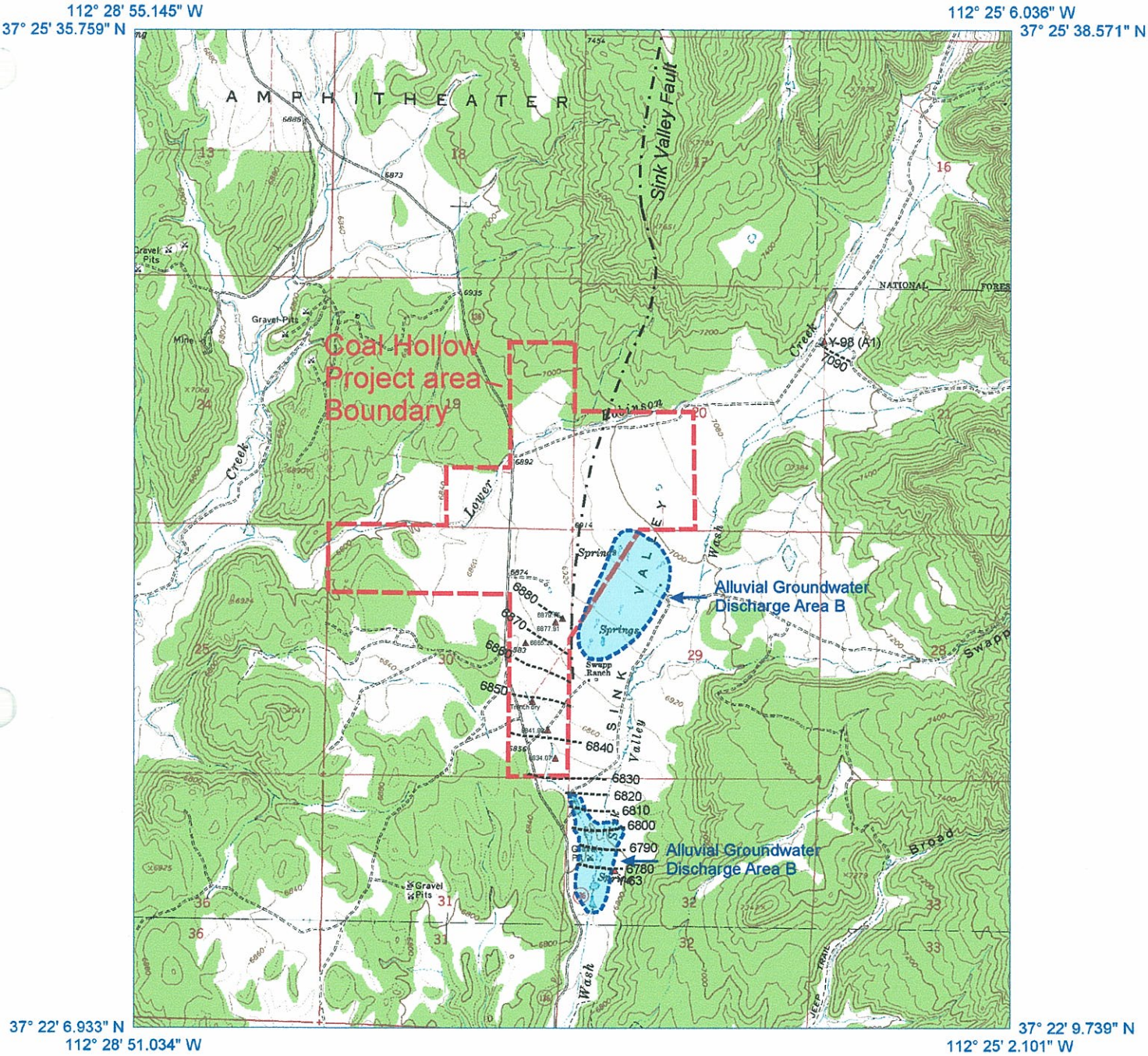
SP SPRING							
SD SURFACE DIVERSION	JOB NUMBER: 1400	SHEET					
SR SURFACE REACH							



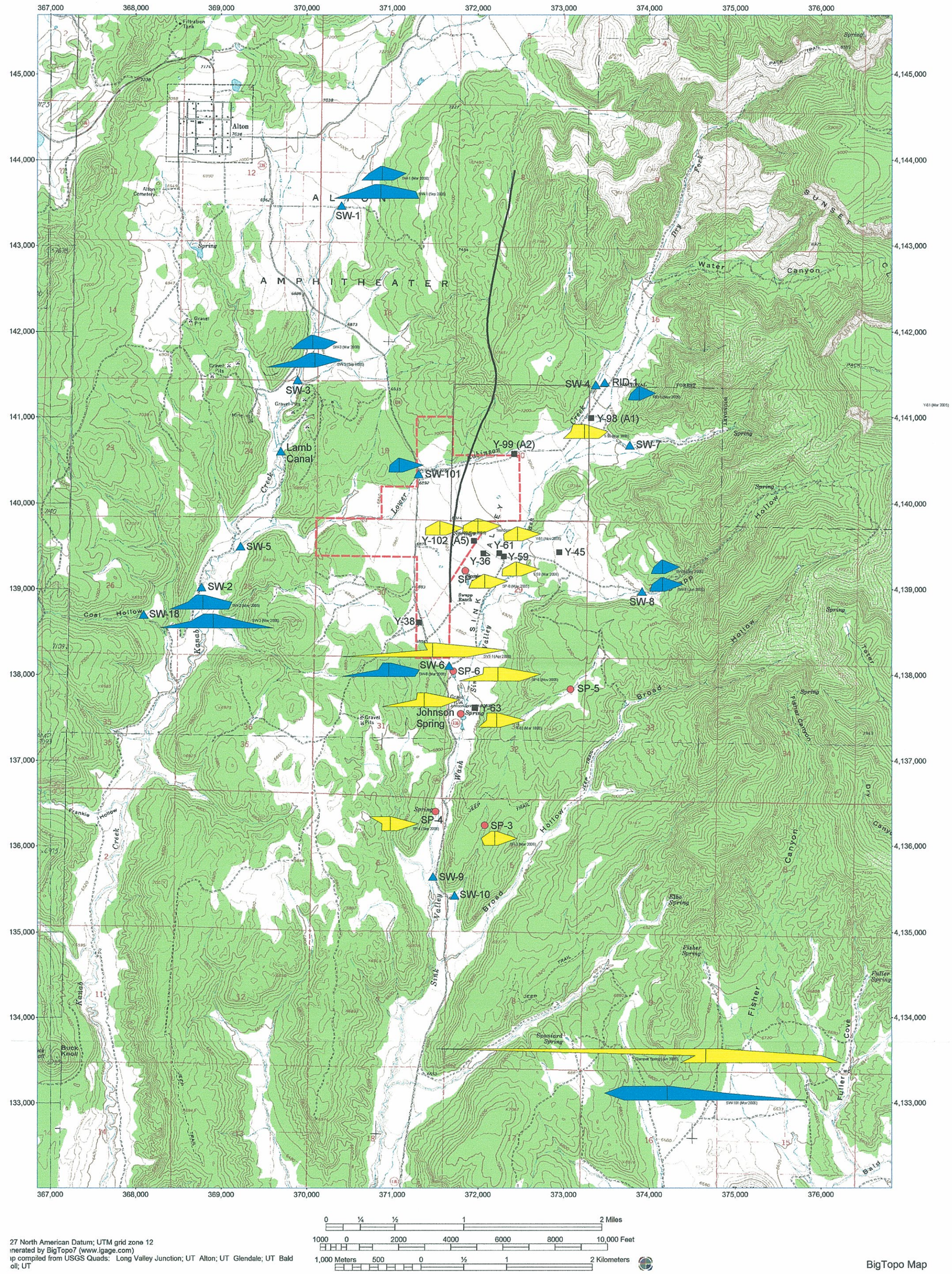
1927 North American Datum; UTM grid zone 12
Generated by BigTopo7 (www.igage.com)
Map compiled from USGS Quads: Alton; UT
Bald Knoll; UT

UTM Grid and 2006 Magnetic North Declination at Center of Sheet
GN to TN 0.881° (15 mils)
TN to MN 12.974° (231 mils)

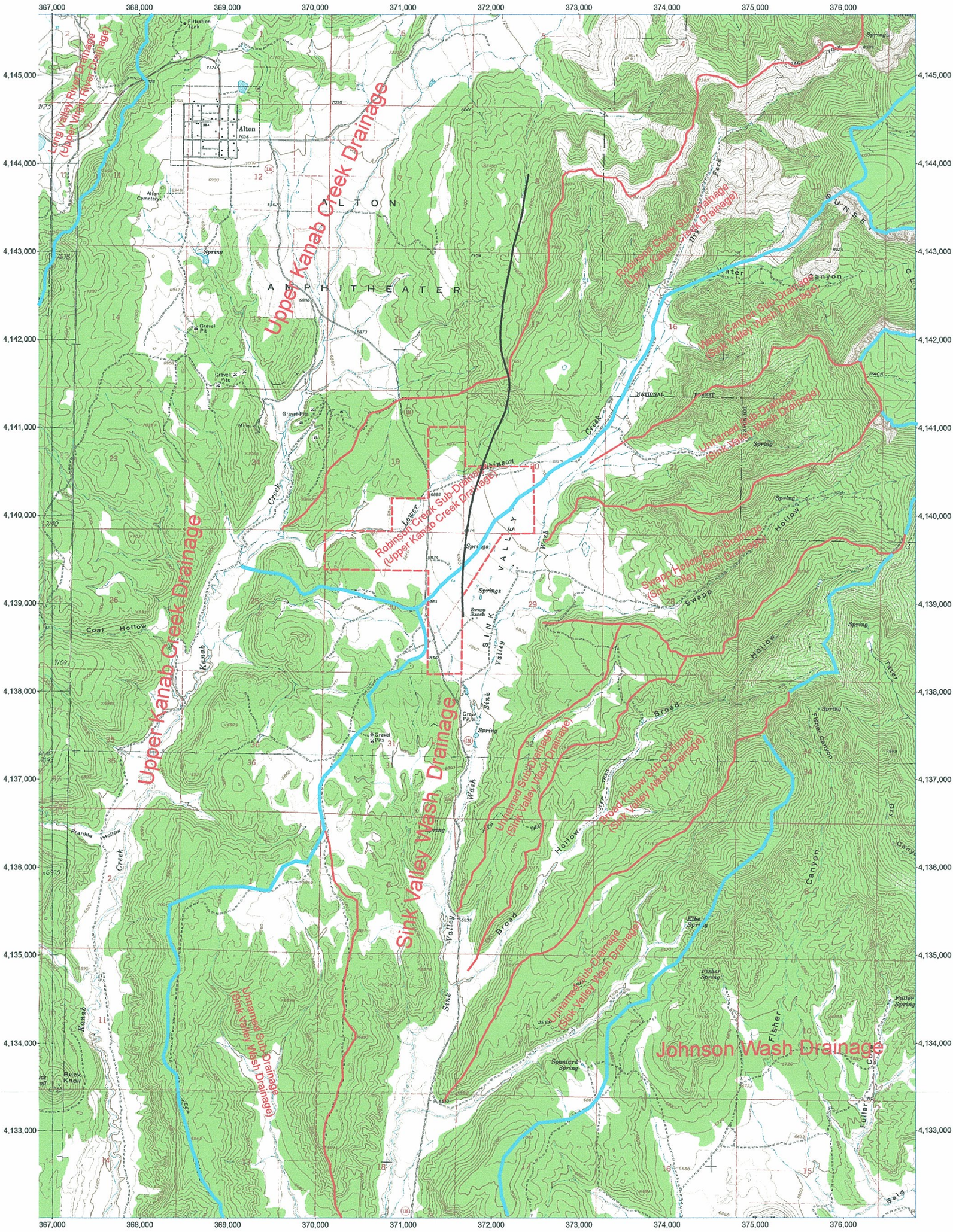
0 ¼ ½ 1 Mile
0 1000 2000 3000 5000 Feet
0 0.5 1 Kilometer

BigTopo Map

Drawing 7-4 Alluvial groundwater discharge areas and approximate water table elevation in shallow alluvium during high-water conditions, May 2006.



Drawing 7-5 Stiff diagrams for groundwaters and surface waters in the Coal Hollow Project area

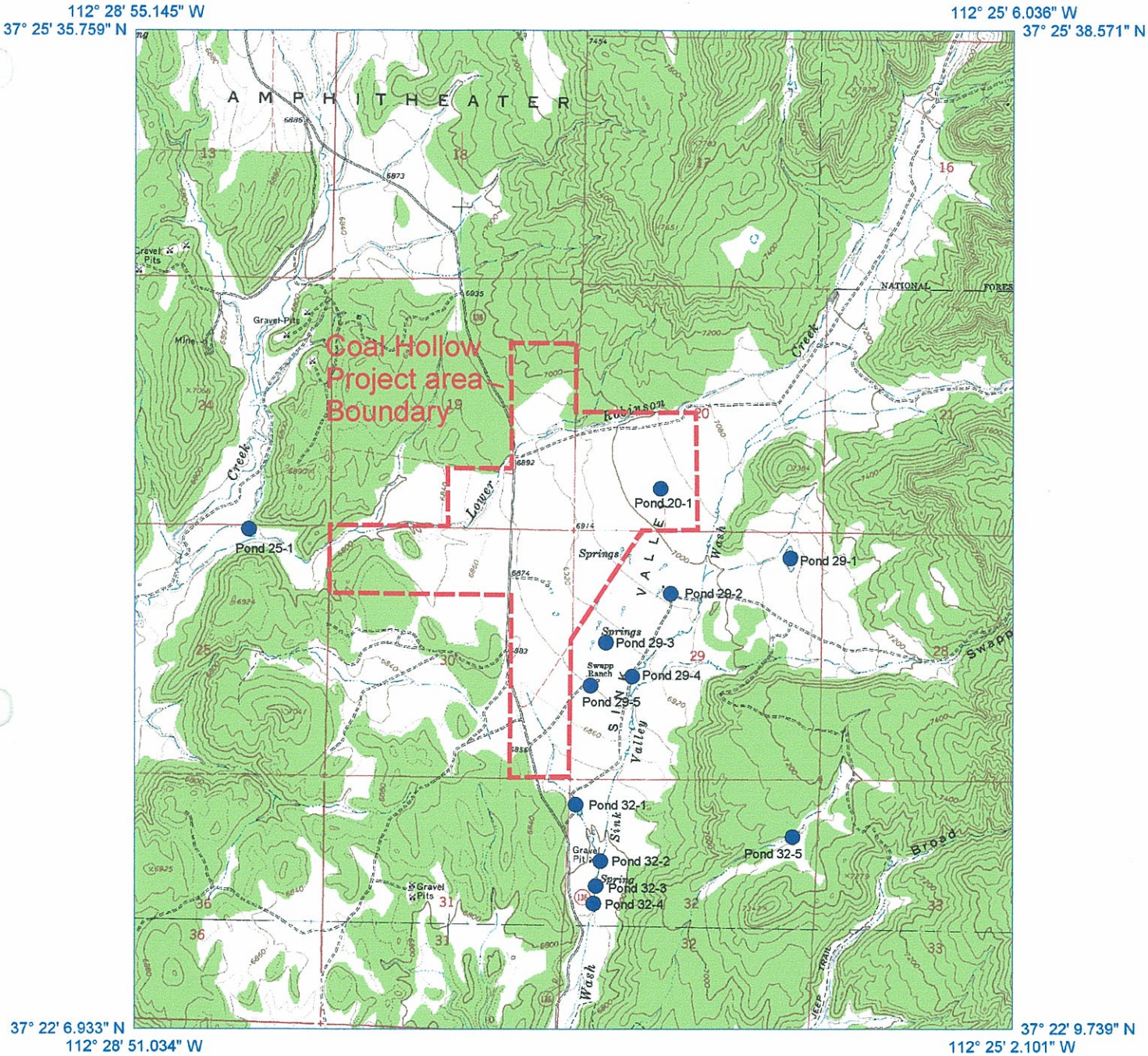


1927 North American Datum; UTM grid zone 12
Generated by BigTopo7 (www.igage.com)
Map compiled from USGS Quads: Long Valley Junction; UT Alton; UT Glendale; UT Bald Knoll; UT

0 ¼ ½ 1 2 Miles
1000 0 2000 4000 6000 8000 10,000 Feet
1,000 Meters 500 0 ½ 1 2 Kilometers

BigTopo Map

Drawing 7-6 Surface water drainages in the Coal Hollow Project area.



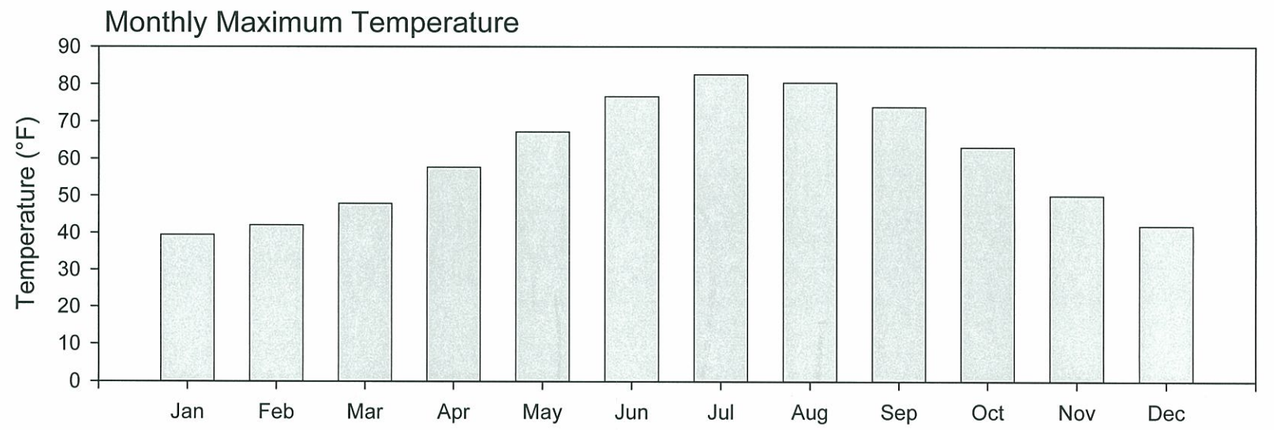
1927 North American Datum; UTM grid zone 12
Generated by BigTopo7 (www.igage.com)
Map compiled from USGS Quads: Alton; UT
Bald Knoll; UT

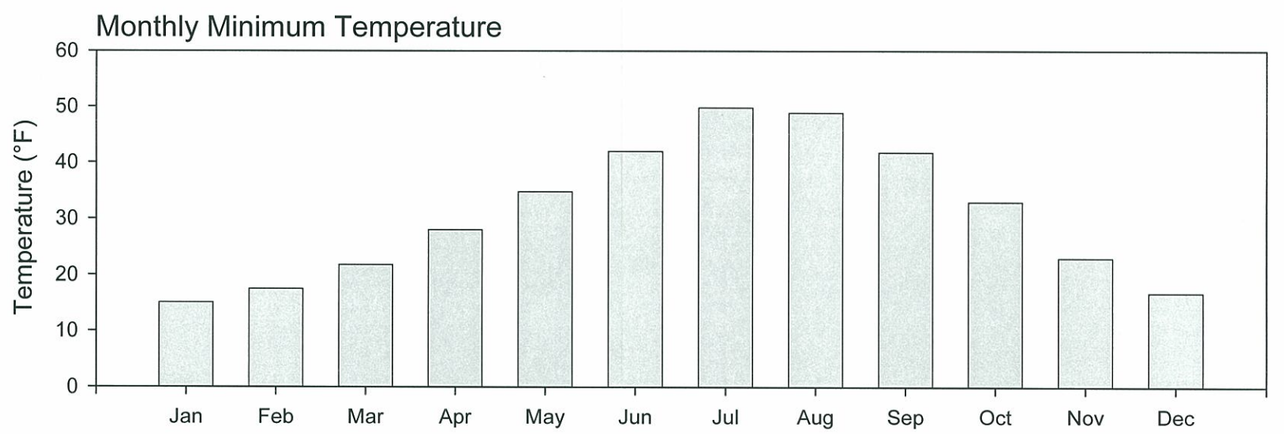
UTM Grid and 2006 Magnetic North
Declination at Center of Sheet
GN to TN 0.681° (15 mils)
TN to MN 12.974° (231 mils)

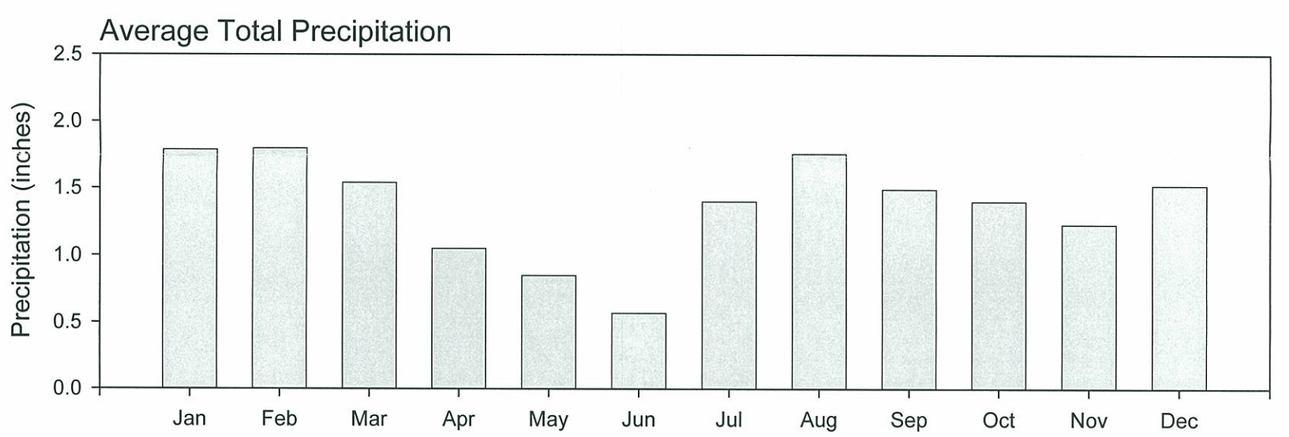
0 ¼ ½ 1 Mile
0 1000 2000 3000 5000 Feet
0 0.5 1 Kilometer

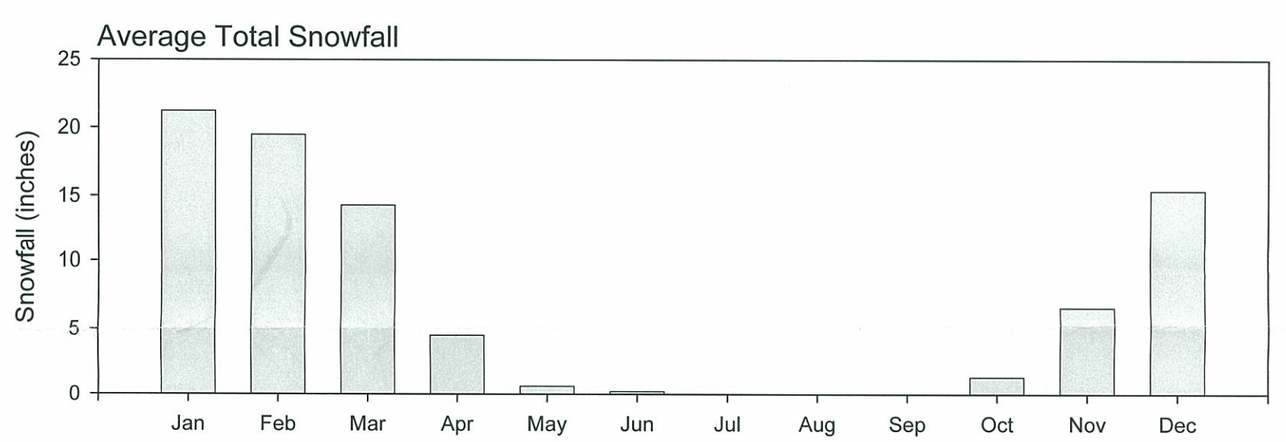
BigTopo Map

Drawing 7-7 Locations of streams and ponds in the Coal Hollow Project and adjacent area.

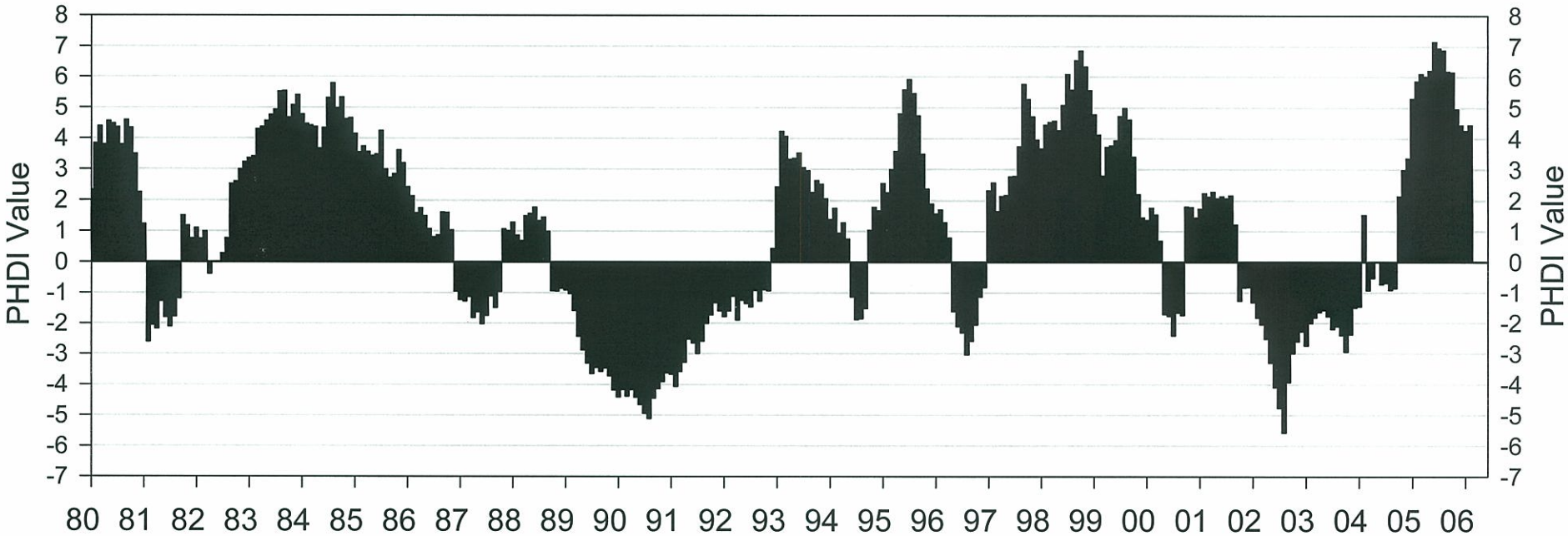








Drawing 7-8 Plots of climatologic information from the Alton, Utah weather station (420086), 1928-2005.



-1 to -2	Mild Drought	1 to 2	Mild Wet Spell
-2 to -3	Moderate Drought	2 to 3	Moderate Wet Spell
-3 to -4	Severe Drought	3 to 4	Severe Wet Spell
-4 to -5	Extreme Drought	4 to 5	Extreme Wet Spell

Drawing 7-9 Plot of Palmer Hydrologic Drought Index for Utah Region 4.