

SITE INFORMATION

Site Identifier : HN1LB2 **Landowner Type :** Private
Site Name : **Landowner Name :**
WRIA : 03.0268X **Address :**
Region : NS **Address2 :**
Trib to : Red Cr **City :**
River Mile : 0.60 **State :**
River System : Hansen Cr **Zipcode :**
Legal Description : NE1/4S17T35NR5E **Phone :**
County : Skagit
Habitat Type : wetland

Directions :

Take Highway 20 out of Sedro Woolley for approximately 2 miles and the site begins on the right (south) side of the road.

Area Overview :

This site offers approximately 75,000 square meters of excellent rearing habitat during the wet winter months. It appears to shrink considerably during late summer but may still have some wetted areas for fish to hold out in. There is a fair amount of spawning habitat available but it is unknown if adults use it.

Field Survey Information

Date : 03/10/1998 **Observer :** Olis **Survey Type :** initial

HABITAT INFORMATION

Water Source: () Spring (X) Groundwater (X) Surface runoff

Flow: () Intermittent(X) Year-round

Estimated Flows (cfs): Lower end: 1
Upper end: None

Water Temperature(C): Lower end: 7.2
Upper end: 7.2

Receiving Water Temperature (C): 7.7

Other Observations:

Site Area Measurements: () Indirect () Direct (X) Combination

Widths: Channel: 2m Ponds: Wetlands: 35m
Depths: Channel: 20cm Ponds: Wetlands: 0.5m
Total length (includes ponds and wetlands): 1584m

Total existing habitat area (est. m2): 76189

Spawning area:	Mainstem: 15	Tribs:	Total:
Impounded area:	Mainstem:	Tribs:	Total:
Other rearing area:	Mainstem: 75759	Tribs:	Total:
Unaccessible habitat:	Mainstem: 430	Tribs:	Total:

Spawning habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: Consists of 2" to 4" gravel in mostly riffled habitat. There is good brushy cover but water depth is marginal for spawners in places.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat: The first 610m is a 2m wide ditch that runs along Highway 20. This section is mudbottomed, mostly slow moving and has occasional beaver activity. The next 1500m is a canary grass choked swale that is 1' deep. There is good amounts of skunk cabbage towards the middle of this section, while the head end is in a pasture area and is void of vegetation. There is a wooded area in between the swale and Highway 20. There is a low beaver dam that is 40m long and creates a wooded pond area that is 440m long by 35m wide. On the north side of Highway 20, there is another wooded swamp that is 314m long and 12m wide. This section has a very mucky substrate and is loaded with water parsley, skunk cabbage, canary grass and duckweed. There is a creek that feeds into this area and is located on the right bank just above Highway 20. There is approximately 770m of habitat before it becomes high gradient. It averages around 7% grade, is mostly riffled and has good brushy cover.

Describe unaccessible habitat:

Wetland type: Bog Marsh Scrub-shrub Forested

Describe: It is shallow (2" to 4"), has a very mucky substratre and has skunk cabbage, water parsley, canary grass and duckweed. It has a mix of cedar and alder for a overstory and is very brushy with devils club, salmon berry and other brush.

Flooding potential: Low Medium High

Describe: During major flood events, the area may get backed up as Hansen Creek and Red Creek may do the same.

FISH INFORMATION

Site entry condition: Poor Fair Good

Describe: Large pool at entry.

Coho access and use: Juvenile Unknown None Poor Fair Good
Adult Unknown None Poor Fair Good

Describe: It appears that the site is accessible to both juveniles and adults, mostly during high flow periods. There were juvenile salmonids observed at the site but it was unknown if any were coho.

Other species access and use: Chum Pink Sockeye Chinook Trout

Describe: There appears to be a good cutthroat population present.

ENHANCEMENT OPPORTUNITIES: There is a culvert that one of the feeder creeks flow into that has a two foot drop on it. This situation could be enhanced to allow better fish passage.

Project type: Culvert replacement.

Equipment access: Good

ADDITIONAL COMMENTS: During extended low flow periods, parts of this system will dry up, isolating some of the wetted areas in the system. Also to access this site, fish have to negotiate a tide gate that is set up at the confluence of Red Creek and Hansen Creek. It may make fish access more difficult during high flow periods. The uppermost swampy area was electro shocked for approximately 10 minutes. One 6" cutthroat was captured while 4 others were rolled. No coho were found.

ATTACHMENTS AVAILABLE

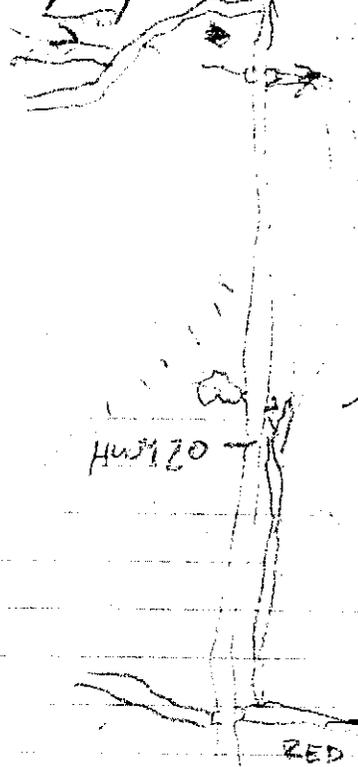
Aerials Sketch Maps Spawning Surveys Juvenile Trapping
 Other References

HN14BZ

RM 0.6

NE 1/4 S17T 35NR5E

3/10/98



0.9 miles

0.35 miles
ANKLE DEEP
25m across

HWY 20

RED CRK.

~~FLOW~~

0.0 ENTRY

FLOW - 1 CFS

WTR TEMP - 45

RCC WTR TEMP - 46

ACCESS - LARGE POOL

84m WW 215m

- SLOW MOVING

- DITCHED

- @ 5' CULVERT

- MUD-BOTTOMED

170m - WW 2m

227m WW 1m

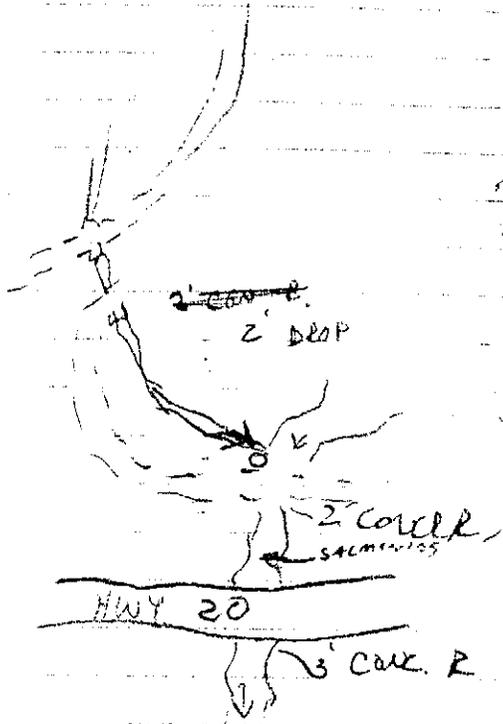
- @ 4' CONCR. PIPE

300m - 1.5m
- mostly RIFF

610m - 2m WW
- @ BEGINNING
OF SWALE IN
FIELD AND 2'
CONCRETE PIPE
UNDER HWY 20
- SOMEONE WAS
CLEANING OUT
DITCH w/ HOE
- FOUND 5" TROUT
IN BUCKET PILE

7 miles
TO PARKER RD.
AND TRIP ON RB.

H-10-3



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- 78m MOSTLY RIFF, 1m
- 5m² SP HAB
- SKUNK CAB
- GOOD COVER
- @ 2' CMP W/ 2' DEEP
2-4" GE.

- 119m WW 1.5m
- 3m² SP HAB
- @ 2' CMP

- 220m WW 1.5m
- 10% POOLED
- MOSTLY COBBLE SUB
- GOOD BRUSHY COVER

286m WW 1.5m

- MOSTLY RIFF
- 4m² SP HAB

340m WW 2m

- MOSTLY RIFF
- SOME SMALL BOULDERS SHOWING UP
- x 5%
- @ 2' STEEL PIPE w/ 8' FOOT DROP
- ROAD GRADE

475m WW 1m

- 5m. BOULD. COBBLE
- 8% GRADE MOSTLY RIFF 5% POOLED

... GOOD COVER.

573m WW 1m

- 10% POOL
- OCC. CASC. POOL

652m WW 1m

- 6-7% GRADE
- 15% POOLED
- @ 2' CMP & GRADE w/ 4' DROP

770m WW 1m

- x 10% GRADE
- SMALL CASCADE -> RIFF

770m

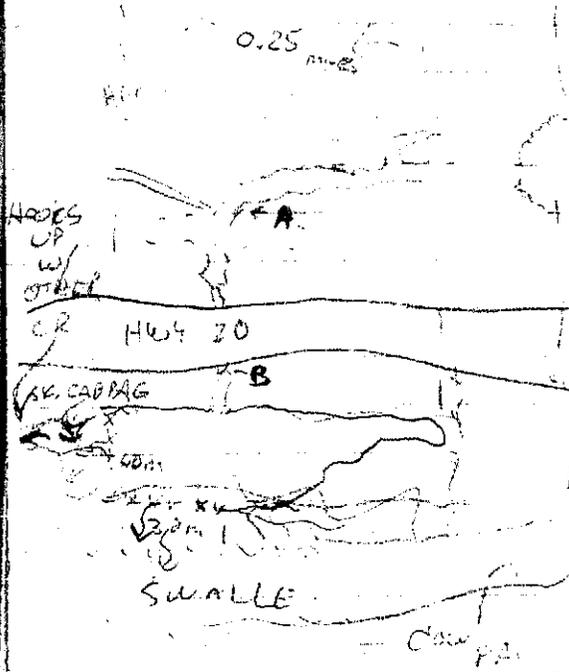
~~END~~ HABITAT

ABOVE $\approx 12\%$

- END OF SURVEY.

4-14-98

0.38 miles



- FROM POINT A -

80m - 20m W/W

- POOL - SWAMPY AREA
- SMALL WOODLAND SWAMPY AREA

- SKUNK CABBAGE
- CANARY GRASS AND BRUSH

127m W/W 15m

- LOTS OF SKUNK
- CANARY GRASS, DUCK WEED
- JUV. SALMO - EBW
- MUCKY

168m WW 8m

- EXTEND ON RB

- 5m

- SMALL AMOUNT OF
PLOW 3' DEEP.

- PEPPERED w/ w. PAK.

200m WW 8m

210m WW 12m

263m WW 15m

- LESS WTR P.

- 1' DEEP

- DROPPING OUT IN
PLACES

314m WW 10

- DEEP OUT IN

PLACES

- LEADS BACK OUT ON
HWY 20 & PATCH OF
CATTLE TAILS.

END OF HAB

- FROM PART B -
(DOWN)

10m WW 7m

- POOL -

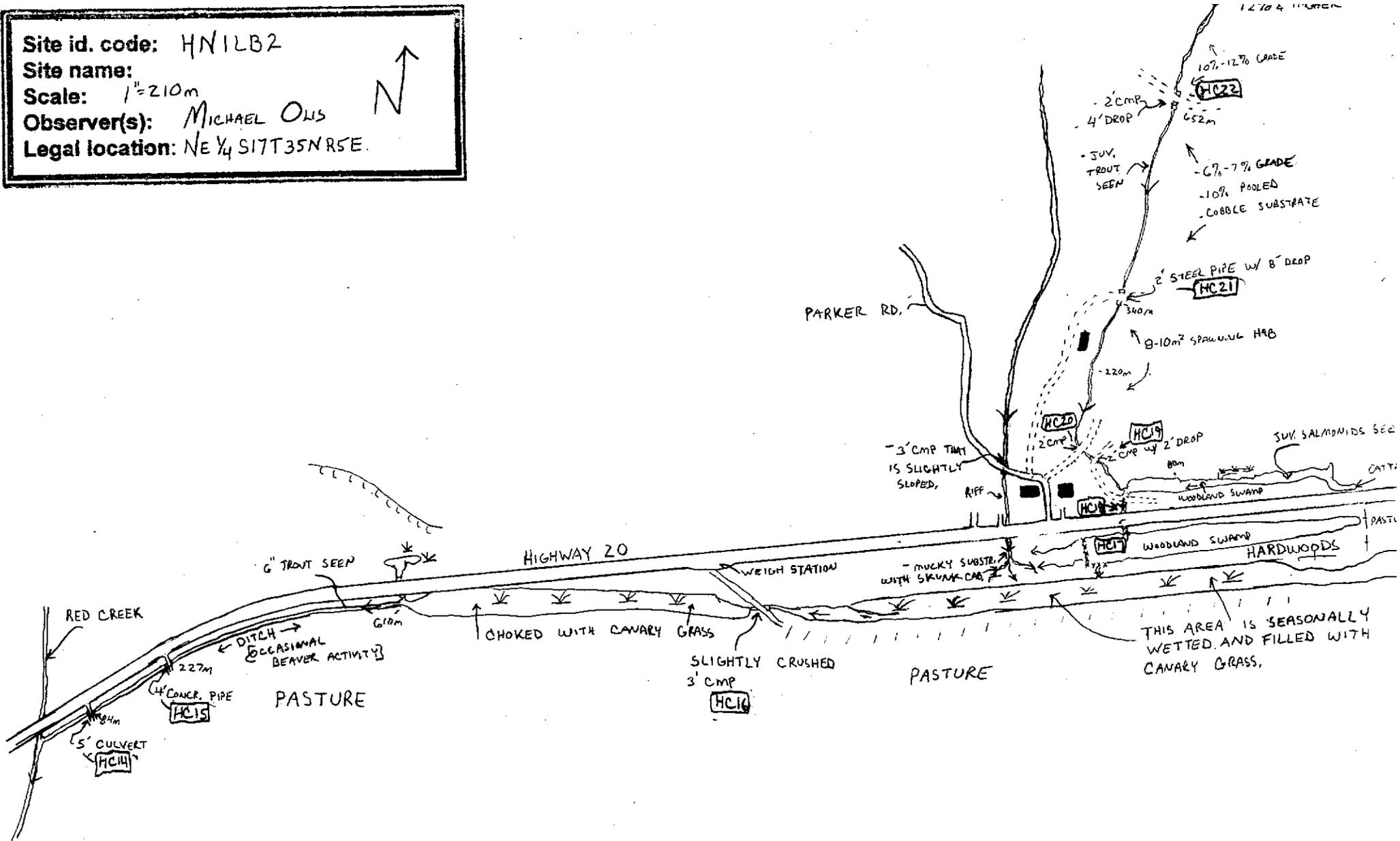
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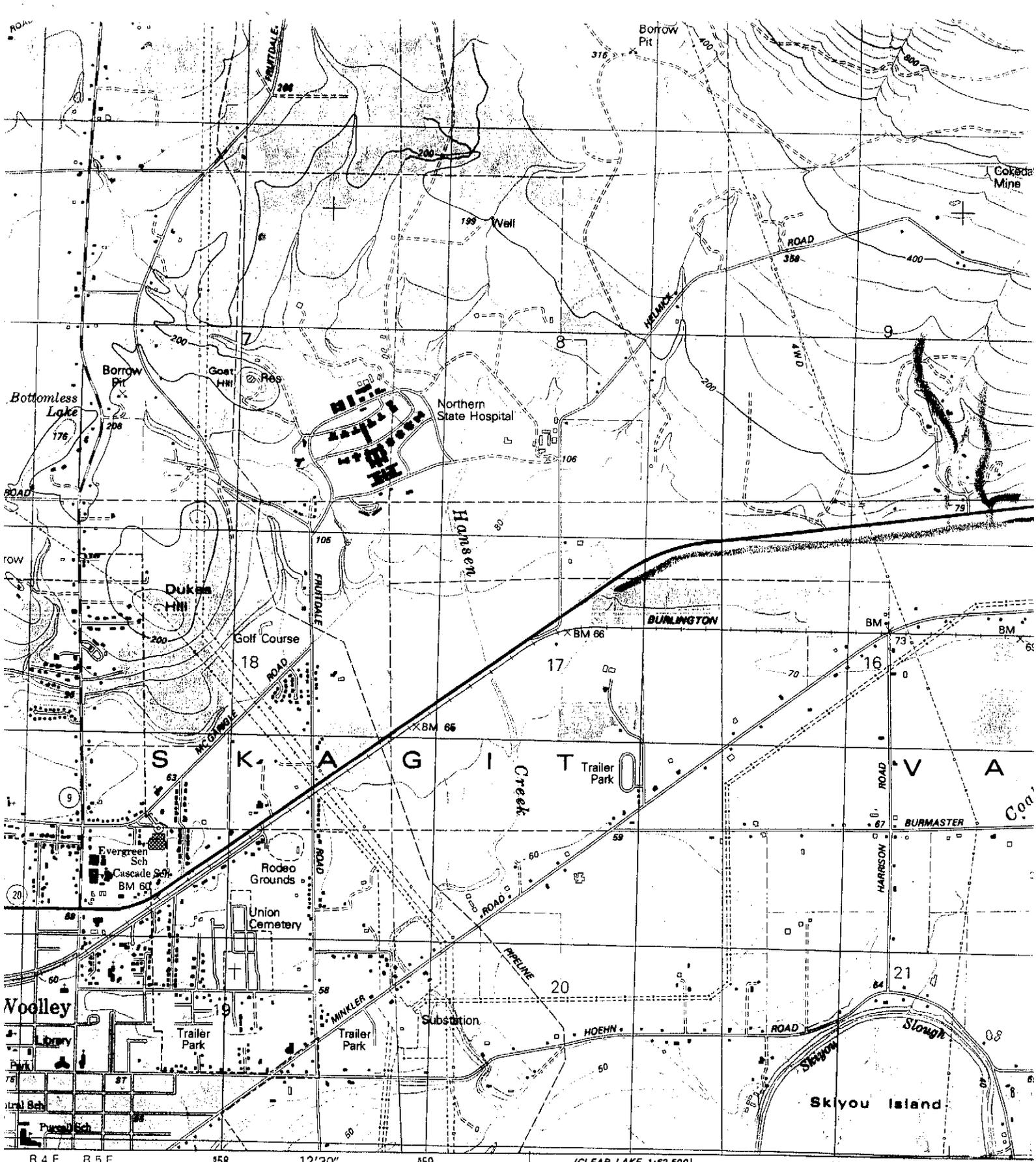
Site name:

Scale: 1"=210m

Observer(s): MICHAEL OLS

Legal location: NE 1/4 S17T35N R5E.



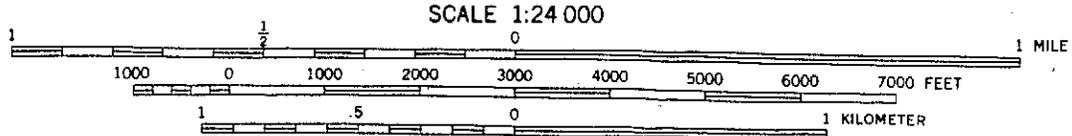
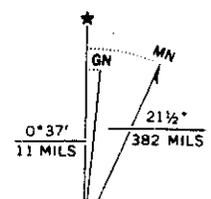


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coordinate

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SCALE 1:24 000

CONTOUR INTERVAL 40 FEET
 SUPPLEMENTARY CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929