

REACH 1

T11S-R9W-34W

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Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0	Constraining Terraces	0
Moderate V-shape	100	Multiple Terraces	0
Open V-shape	0	Wide Floodplain	0

Valley Width Index avg: 3.8 range: 1.0-12.0

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	100	Single Channel	0
Bedrock	0	Multiple Channel	0
Terrace	0	Braided Channel	0
Alt. Terrace/Hill	0		
Landuse	0		

Channel Characteristics

<u>Type</u>	<u>Length(m)</u>	<u>Area (m2)</u>	<u>Dry Units</u>
Primary	477	2,077	0
Secondary	29	43	1

Channel Dimensions (m)

	<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u>	<u>First Terrace</u>
Width	3.8	6.3	8.3	7.9
Depth	0.31	0.5	0.9	1.1
W:D ratio		12.7	Entrenchment	1.3

Stream Flow Type: MF Water Temp: 13.0-13.0°C
Avg. Unit Gradient: 1.3% Habitat Units/100m: 6.5

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	TH	ST
Riparian Vegetation:	D15	G

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding	2%	Reach avg: 92%
Undercut Banks	4%	Range: 58-100

Large Woody Debris

	<u>Total</u>	<u>Total/100m</u>
All pieces ($\geq 3m \times 0.15m$)	23	4.8
Volume (m ³)	25	5.2
Key pieces ($\geq 10m \times 0.6m$)	0	0.0

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HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbbl	Bldr	Bdrk
CASCADE/BOULDERS	1	8	1.2	0.20	9	5	0	24	29	35	12	0
DRY CHANNEL	1	8	0.6	0.00	5	0	0	17	78	6	0	0
GLIDE	3	55	3.4	0.22	182	9	20	38	22	17	4	0
POOL-BACKWATER	1	14	2.1	0.20	29	0	48	38	14	0	0	0
POOL-LATERAL SCOUR	12	178	4.2	0.57	783	14	39	44	6	9	2	0
POOL-STRAIGHT SCOUR	1	8	3.0	0.35	25	2	10	29	5	38	19	0
RAPID/BOULDERS	2	22	4.0	0.15	88	18	0	10	10	55	25	0
RIFFLE	8	178	4.4	0.16	850	57	5	18	37	29	12	0
RIFFLE W/ POCKETS	1	23	4.2	0.20	95	20	5	21	11	42	21	0
STEP/COBBLE	3	14	3.8	0.07	54	18	0	7	42	40	11	0
Total:	33	507	3.8	0.31	2,120	143	Avg:19	29	22	22	8	0

HABITAT SUMMARY

Habitat Group	No. Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area (m ²)	Percent	Large Boulders Number	Boulders #/100m ²
Dammed & BW Pools	1	14	2.1	0.20	29	1.36	0	0.0
Scour Pools	13	186	4.1	0.55	808	38.10	16	2.0
Glides	3	55	3.4	0.22	182	8.61	9	4.9
Riffles	9	200	4.4	0.16	945	44.59	77	8.1
Rapids	2	22	4.0	0.15	88	4.15	18	20.5
Cascades	1	8	1.2	0.20	9	0.42	5	55.6
Step/Falls	3	14	3.8	0.07	54	2.54	18	33.4
Dry	1	8	0.6	0.00	5	0.23	0	0.0

POOL SUMMARY

All Pools	<u>Total</u>	<u>#/Km</u>
	14	27.6
Pools ≥1m deep:	0	0.0
Complex pools (LWD pieces ≥3):	3	5.9
Pool Frequency (channel widths/pool):	5.7	
Residual pool depth (avg)	0.45m	

STREAM SUMMARY

DEER CREEK #2 (PRE SUM 99)

Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Substrate Percent Wetted Area					Total Large Boulder	
					S/O	Sand	Grvl	Cbbl	Bldr		Bdrk
33	507	3.8	0.31	2,120	19	29	22	22	8	0	143

Habitat Group	Wetted Area	
	(m ²)	Percent
Scour Pool	808	38.1
Backwater Pools	29	1.4
Glide	182	8.6
Riffle	945	44.6
Rapid	88	4.2
Cascade	9	0.4
Step	54	2.5
Dry	5	0.2

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RIPARIAN ZONE VEGETATION SUMMARY

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Summary of Riparian Zone (0-30m) (3 transects)

Total hardwoods/1000 ft	630
Total conifers/1000 ft	0
Total conifers >20" dbh/1000 ft	0
Total conifers >35" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	1.7	0.0	2.0	0.0	0.7	0.0	4.3
15-30cm	0.0	0.7	0.0	0.3	0.0	1.3	0.0	2.3
30-50cm	0.0	0.7	0.0	2.0	0.0	0.0	0.0	2.7
50-90cm	0.0	0.3	0.0	0.3	0.0	0.3	0.0	1.0
>90cm	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total/100m ²	0.0	3.3	0.0	4.7	0.0	2.3	0.0	3.4

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	(%)		(%)		(%)	
Canopy closure	80		74		40	
Shrub cover	61		73		28	
Grass/forb cover	39		26		47	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10-20 meters		Zone 3 20-30 meters	
	Hillslope	67		67		33
High terrace	17		33		33	
Low terrace	17		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		33	
Riprap	0		0		0	
Surface slope (%)	33		33		25	

Summary of Riparian Zone (0-30m) for all reaches (3 transects)

Summary of riparian zone (0-100ft) extrapolated to 1,000 feet along stream

Total hardwoods/1000 ft	630
Total conifers/1000 ft	
Total conifers >20" dbh/1000 ft	0

Average number of trees in a 5-meter wide band

<u>Diameter</u> <u>class (cm)</u>	<u>Zones 1-3</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.0	4.3
15-30cm	0.0	2.3
30-50cm	0.0	2.7
50-90cm	0.0	1.0
>90cm	0.0	0.0

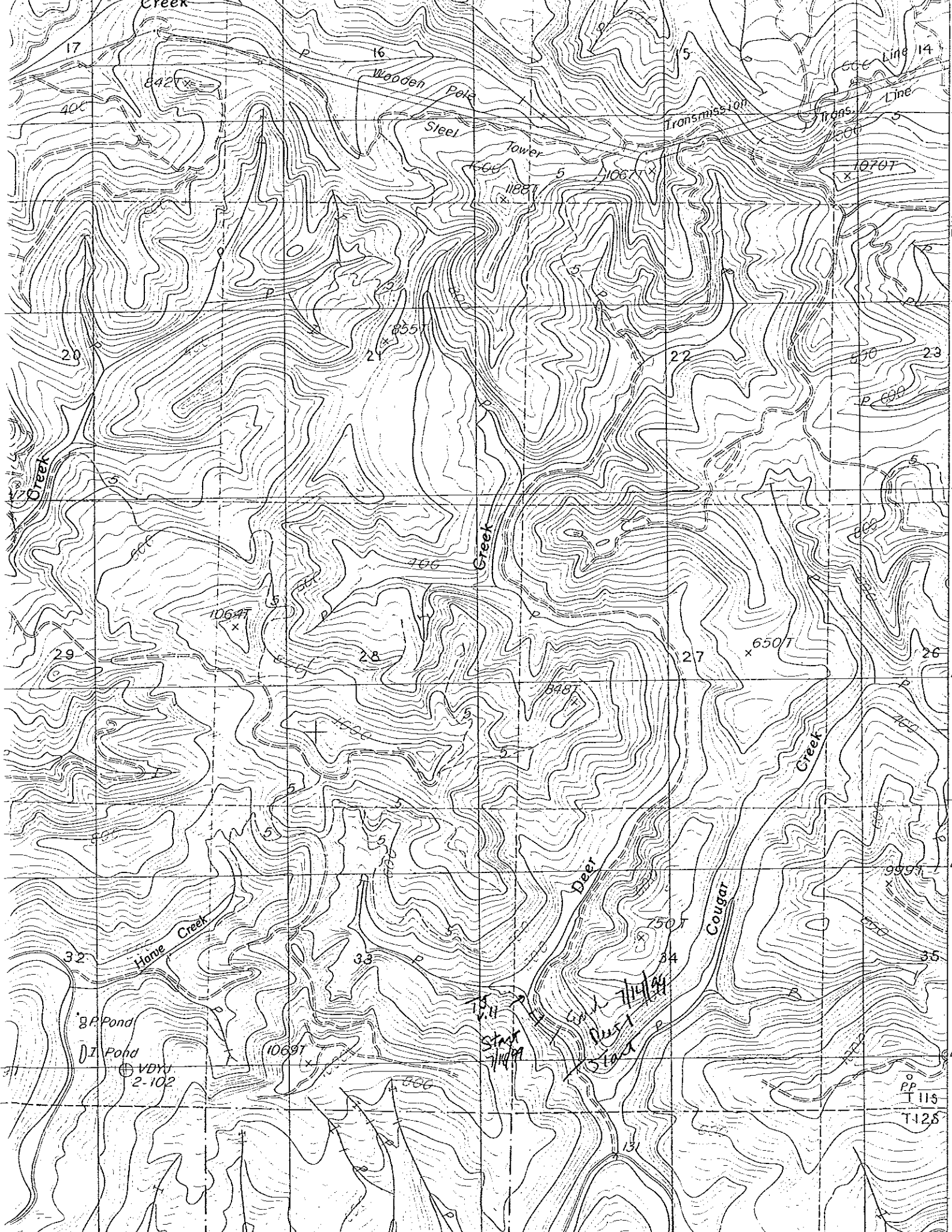
RIPARIAN ZONE VEGETATION

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VEGETATION DETAIL

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90	
9	LF	1	HS	30.0	90	60	40	Conifer	0	0	0	0	0	
								Hardwood	5	0	0	1	0	
9	LF	2	HS	35.0	30	100	0	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	1	0	
9	LF	3	HS	45.0	0	100	0	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
9	RT	1	LT	0.0	90	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	ALSO HILLSLOPE
9	RT	2	HS	30.0	80	70	20	Conifer	0	0	0	0	0	
								Hardwood	4	0	1	0	0	
9	RT	3	RB	30.0	60	20	5	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	ALSO HILLSLOPE, SLO
18	LF	1	HT	0.0	60	35	65	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	LF	2	HT	0.0	85	15	85	Conifer	0	0	0	0	0	
								Hardwood	1	0	3	0	0	
18	LF	3	HT	0.0	80	10	90	Conifer	0	0	0	0	0	
								Hardwood	1	0	0	1	0	
18	RT	1	HS	80.0	65	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
18	RT	2	HS	80.0	70	80	20	Conifer	0	0	0	0	0	
								Hardwood	1	1	1	0	0	
18	RT	3	RB	0.0	0	20	5	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	ALSO HILLSLOPE
26	LF	1	HS	25.0	85	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	2	0	0	0	
26	LF	2	HS	50.0	90	90	10	Conifer	0	0	0	0	0	
								Hardwood	0	0	1	0	0	
26	LF	3	HT	5.0	20	0	100	Conifer	0	0	0	0	0	
								Hardwood	0	1	0	0	0	HIGH TERRACE-MEADOW
26	RT	1	HS	60.0	90	20	80	Conifer	0	0	0	0	0	
								Hardwood	0	0	2	0	0	
26	RT	2	HT	5.0	90	80	20	Conifer	0	0	0	0	0	
								Hardwood	0	0	0	0	0	
26	RT	3	HS	70.0	80	20	80	Conifer	0	0	0	0	0	
								Hardwood	1	3	0	0	0	@ EDGE ACTIVE TIMBE



Creek

Wooden Ponds

Transmission Line

Line 14
Line 5

Steel Tower

x 10707

17

16

15

400

842

11887

10677

x 10707

20

21

22

23

706

Greek

10647

28

27

26

x 6507

8487

Creek

29

Home Creek

33

Deer

Cougar

35

8 P Pond

DZ Pond

VDUV
2-102

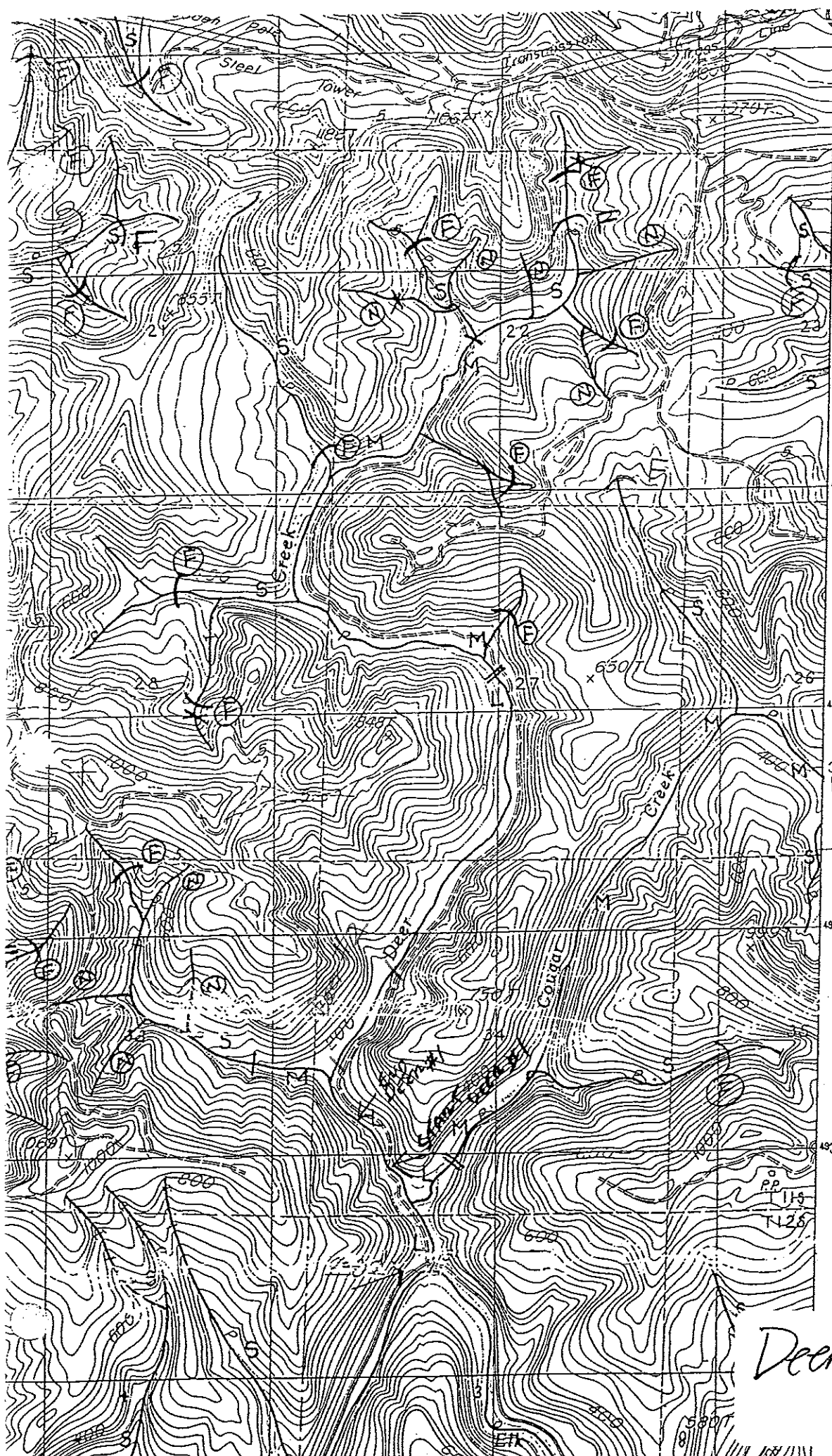
10697

Start
7/14/99

Start
7/14/99

PP
T 115
T 125

ek



DEER #1 & 2
WINTER HABITAT
SURVEY
199
N 500 m TOTAL
FOR BOTH

Deer Creek 2