

DATE 7.10.96

CUTTING METHOD clipper

OBSERVER Kuennen

SKIDDING METHOD RTS

DISTRICT Rexford

HAZARD TREATMENT _____

SALE South Parsnip P.C.
Unit No. 10

SILVICULTURAL TREATMENT wh seed tree SD

130-01-100 117A

OPERATION PERIOD winter 95-96

S.F. Parsnip Area. 45

COMPACTED (Heavy)	30	37
COMPACTED (Light)	45	260
UNDISTURBED	60	160
DISPLACED	45	50
EXCAVATED SKID TRAIL	10	5
	25	15

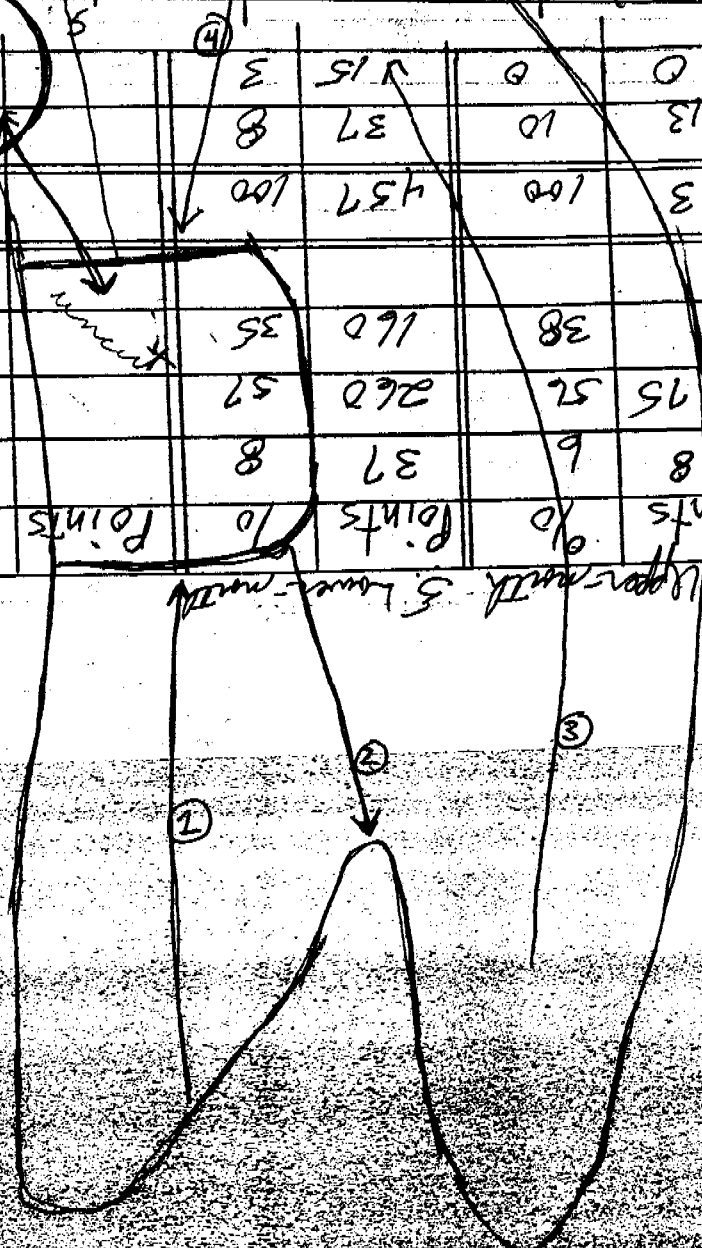
COMMENTS Soil is saturated now. Soil was saturated during logging. Many places where machine buried itself. Main skid trail from top bench horrendous. It is now an excavated trail, main or back to fractured bedrock. The few waterbars are doing some good, but there is still way too much erosion. Every place machine bogged down water came from tracks and started erosion. Doyler or clipper piles bogged SE corner.
Upper - starting at clipper piles -> N
Middle - across narrow part of unit
Lower - approximately across first bench
 SHAPE OF UNIT AND PATTERN OF TRANSECT

Poor control of operations. Small draw on north end. Skidded in + puddled; tried to corduroy/cover mess.
Culverts too far apart. Culvert inlet at main landing - smashed.

COMPACTED (Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.
 COMPACTED (Light) - any other area not included in heavy COMPACTED or UNDISTURBED.
 UNDISTURBED - no signs of any machinery or skidding activity.
 DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.
 SMZ - include within transect if within harvest unit.

Disturbance	1 Lower		2 Middle		3 Upper		Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	45	19	30	18	45	7		
Light	135	56	70	59	400	59		
Undist.	60	25	45	27	235	34		
TOTAL	240	100	165	100	680	100		
Puddled	20	8	30	18	45	7		
Displaced	10	4	5	3	25	4		

Disturbance	1 Lower		2 Middle		3 Upper		Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	8	6	37	8	6	8		
Light	95	52	260	57	52	95		
Undist.	50	38	160	35	38	50		
TOTAL	133	100	457	100	100	133		
Puddled	13	10	37	8	10	13		
Displaced	0	0	15	3	0	0		



4. Upper middle 5 lower middle

12304104
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 7.16.96

CUTTING METHOD Chipper/Processor

OBSERVER Kuennen

SKIDDING METHOD Tractor

DISTRICT Rexford

HAZARD TREATMENT _____

SALE Inch Mt. p.c. 123-04-104
Unit No. 1

SILVICULTURAL TREATMENT SD W/ seed trees

SAF/Alai or Mafe 38A

OPERATION PERIOD winter? late spring/spring
Unit not burned.

COMPACTION (Heavy):

∴ _____ 2

COMPACTION (Light)

_____ 170

UNDISTURBED

_____ 175

DISPLACED

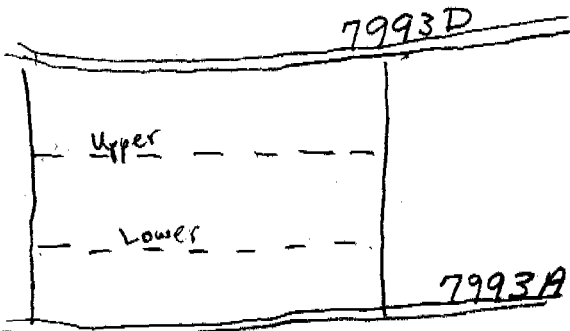
EXCAVATED SKID TRAIL

unharvested
SMZ

COMMENTS

Quartzite bedrock. Soil very rocky. Soil very wet.
Two operational periods?
Some erosion occurring in fireline!
Soil saturated. Wet spots scattered throughout unit. More in southern
finger.
Unit looks very good.
Ash 4-10", mixed in places!

SHAPE OF UNIT AND PATTERN OF TRANSECT



COMPACTION (Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

COMPACTION (Light) - any other area not included in heavy COMPACTION or UNDISTURBED.

UNDISTURBED - no signs of any machinery or skidding activity.

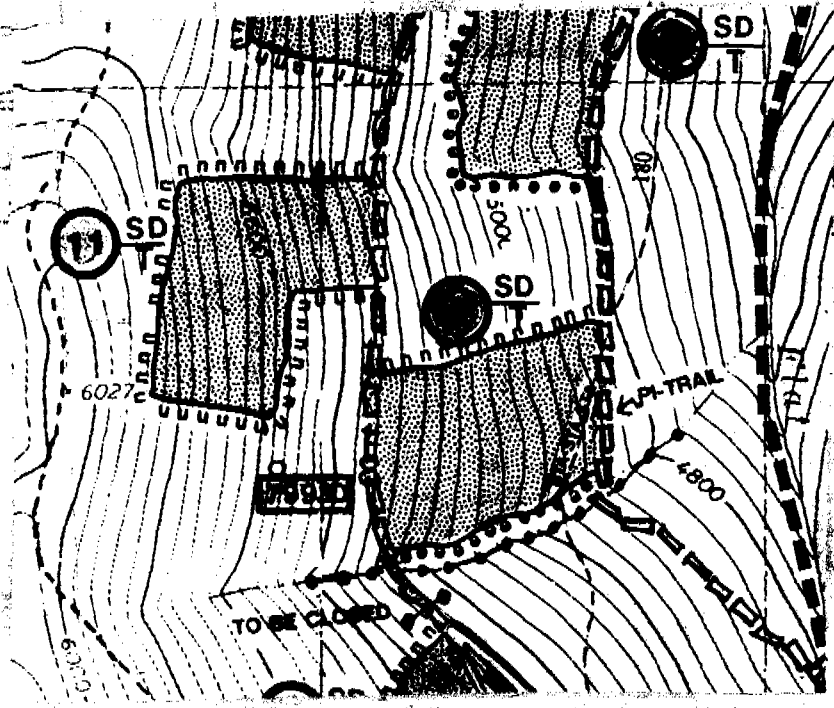
DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

Disturbance							Total	
	Points	%	Points	%	Points	%	Points	%
Heavy								
Light								
Undist.								

TOTAL

Displaced



Disturbance	1 Upper		2 Lower		Total	
	Points	%	Points	%	Points	%
Heavy	2	1	4	1	6	1
Light	170	49	260	58	430	54
Undist.	175	50	180	41	355	45
TOTAL	347	100	444	100	791	100
SMZ	5	1	0	0	5	1
Displaced					0	0

12304058
 KOOTENAI NATIONAL FOREST
 SOIL DISTURBANCE DATA FORM

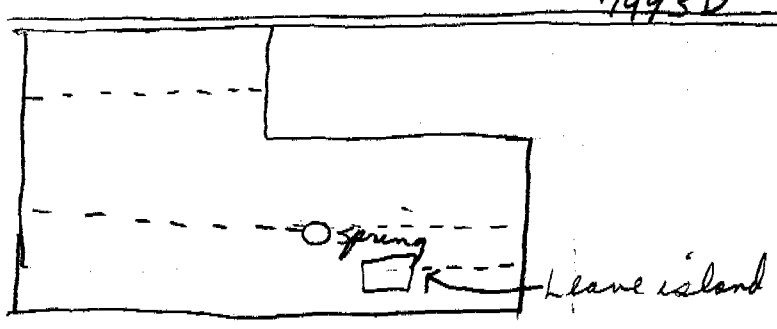
DATE 7.16.96 CUTTING METHOD Clipper
 OBSERVER Kuennen SKIDDING METHOD Tractor
 DISTRICT Rexford HAZARD TREATMENT BB spring '96
 SALE Inch Mt. 123-04-058 SILVICULTURAL TREATMENT SD Few L seed trees
 Unit No. 11 OPERATION PERIOD July - August 1995

Planted ES, WL, DF 39A SAF/A/Si or Mafe Unit was burned

COMPACTION(Heavy) <input type="checkbox"/>	1	8
COMPACTION(Light) <input checked="" type="checkbox"/>		3
<input checked="" type="checkbox"/>		0
<input checked="" type="checkbox"/>		62
<input checked="" type="checkbox"/>		140
<input checked="" type="checkbox"/>		40
UNDISTURBED <input checked="" type="checkbox"/>		180
<input checked="" type="checkbox"/>		332
<input checked="" type="checkbox"/>		90
DISPLACED /		3
EXCAVATED SKID TRAIL <u>along leave island</u>		3 / 20
<u>Spring areas</u>		10
<u>erosion</u>		3

COMMENTS Over Quartzite bedrock. Lots of angular rock in soil (over 65%)
fire left most of patchily decomposed P.M.
Some erosion in excavated fireline. Lower end of skid trails have some
erosion. - < 10 Bedrock exposures in unit. - Lower part of unit much
steeper than upper part, except for SW corner.
Wet spots in unit.
Unit looks very good.

Middle - across middle of longer part of unit!
Lower - across middle of shorter part of unit!
 SHAPE OF UNIT AND PATTERN OF TRANSECT



COMPACTION(Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.
 COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED.
 UNDISTURBED - no signs of any machinery or skidding activity.
 DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.
 SMZ - include within transect if within harvest unit.

Disturbance	1 Lower		3 Middle		3 upper		Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	8	3	3	1	0	0	11	1
Light	62	25	160	32	40	31	262	30
Undist.	180	72	332	67	90	69	602	69
TOTAL	250	100	495	100	130	100	875	100
puddled Displaced Wet	0	0	10		6	0	10	1
Erosion	3	1	0	0	0	0	3	0

Unit 8

Disturbance	Upper		Middle		Lower		Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	17	10	10	3	13	6	40	6
Light	136	74	230	76	165	76	531	75
Undist.	30	16	63	21	40	18	133	19
TOTAL	183	100	303	100	218	100	704	100
Rock	5	3	7	2	1	1	13	2
Displaced	10	5	58	19	40	18	108	15

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

10403112

DATE 9.12.96

CUTTING METHOD Chipper

OBSERVER Kuennen-Sullivan

SKIDDING METHOD RTS (south), Dozer (north)

DISTRICT Rexford

HAZARD TREATMENT ?

SALE Upper Face PC
Unit No. 10

SILVICULTURAL TREATMENT Sp Das - CTM

104-03-112 54A

OPERATION PERIOD Aug-Sept 1996

COMPACTION (Heavy) RTS Cat
RTS Cat

COMPACTION (Light) RTS Cat
RTS Cat

UNDISTURBED RTS Cat
RTS Cat

DISPLACED RTS Cat
RTS Cat

EXCAVATED SKID TRAIL

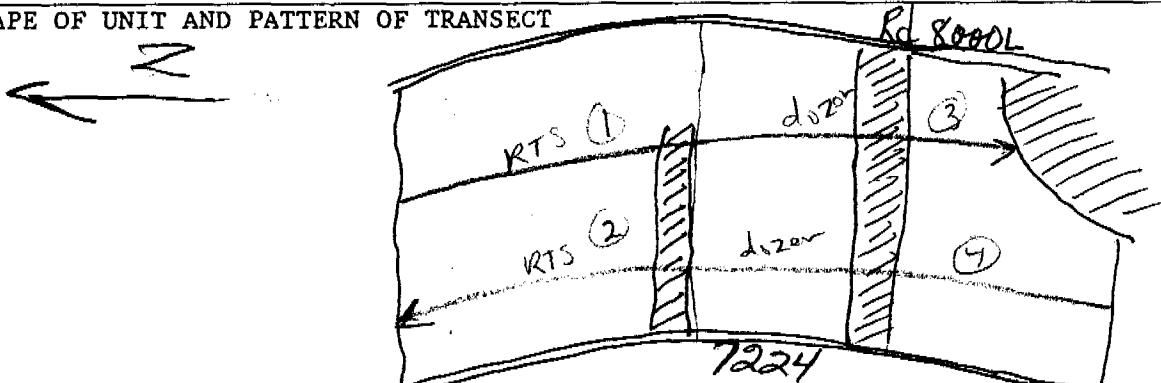
SMZ RTS Cat
RTS Cat

10/20
19/21
110/20
147/219
23/40
25/68
33/80
38/42
50/50
50/20

COMMENTS

North half - dozer skidder; south half - RTS
soil moisture well below 18 ft.
type of skidder definitely make a difference in profile of slash.
Other than amount of displacement being a little high, the unit looks good.

SHAPE OF UNIT AND PATTERN OF TRANSECT



COMPACTION (Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

COMPACTION (Light) - any other area not included in heavy COMPACTION or UNDISTURBED.

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DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

Unit 10

Upgraded RTS || Upgraded Dozer

Disturbance	Points	%	Points	%	Points	%	Points	%
Heavy	10	7	19	10	20	8	21	7
Light	110	77	147	77	203	77	219	71
Undist.	23	16	25	13	40	15	68	22
TOTAL	143	100	191	100	263	100	308	100
lewestrips	50		50		50		20	
Displaced	33	23	38	20	80	30	42	14

RTS

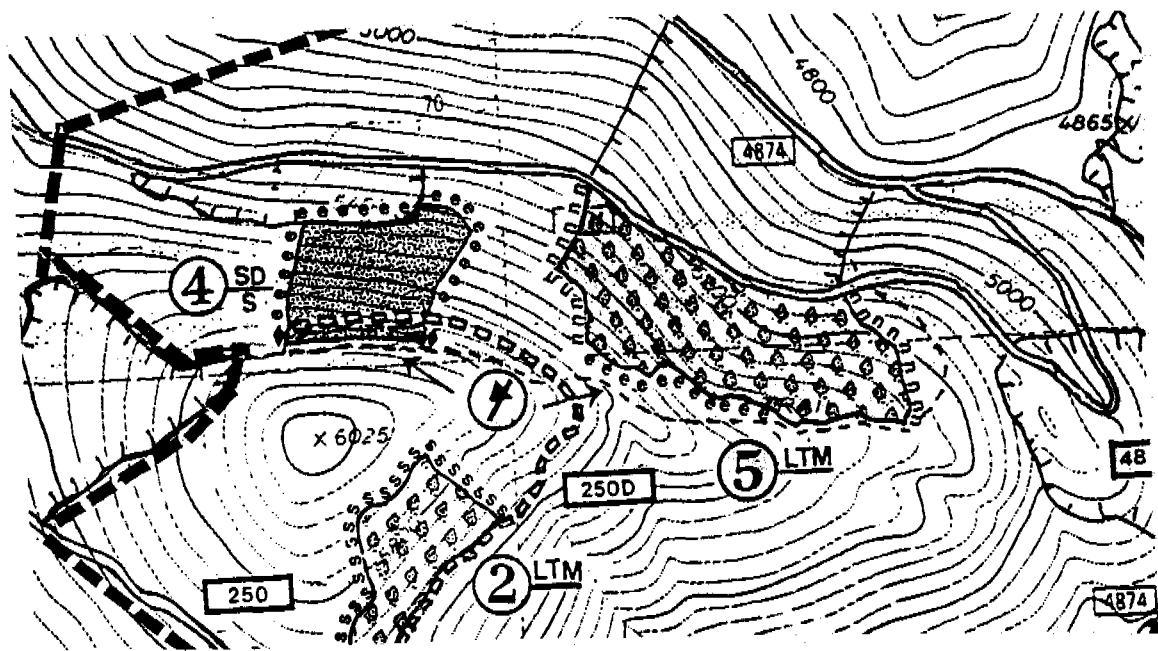
Dozer

29	9
257	77
48	14
334	100
71	21

41	7
422	74
108	19
571	100
122	21

905

Disturbance	1 Lower		2 Upper		Total	
	Points	%	Points	%	Points	%
Heavy	47	7	7	1	54	4
Light	299	47	325	47	622	47
Undist.	287	46	360	52	647	49
TOTAL	631	100	692	100	1323	100
Erosion	20	3	13	2	33	2
Displaced	20	3	17	2	37	3
Puddled	5	1	0	0	5	0



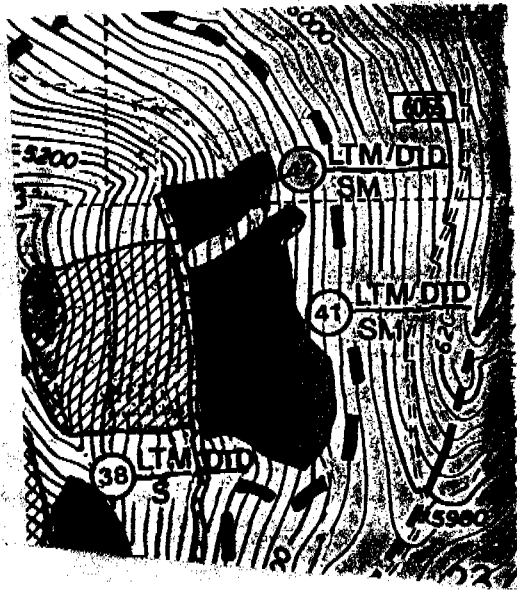
1 Lower || 2 Upper ||

	1 Lower		2 Upper		%	Total Points	%
are vy	6	1	4	1		10	1
Light	315	52	320	58		635	55
Undist.	285	47	230	41		515	44
	606	100	554	100		1160	100
Burn Piles	15	2.5	15	2.7		30	3
Displaced	8	1	13	2		21	2
Erosion	4	.6	3	.5		7	.6

North
Transect South
Transect

Total

Disturbance	North Transect		South Transect		Total	
	Points	%	Points	%	Points	%
Heavy	11	4	14	5	25	4
Light	91	30	60	22	151	26
Undist.	199	66	201	73	400	70
TOTAL	301	100	275	100	576	100
Excavated Trail	11	4	14	5	25	4
Displaced	35	12	51	19	86	15



Upper Lower

Total

Disturbance	Upper		Lower		Total			
	Points	%	Points	%	Points	%		
Heavy	7	2	20	6			27	4
Light	165	56	210	61			375	59
Undist.	123	42	112	33			235	37
TOTAL	295	100	342	100			637	100
Displaced	20	7	50	15			70	11

Disturbance	Lower		Upper				Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	20	5	18	5			38	5
Light	220	57	224	57			444	57
Undist.	145	38	150	38			295	38
TOTAL	385	100	392	100			777	100
Displaced	30	8	30	8			60	8

Lower Middle Upper Total

Disturbance	Lower		Middle		Upper		Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	33	10	17	5	3	2	53	6
Light	198	57	190	53	85	51	468	54
Undist.	112	33	150	42	80	48	342	40
TOTAL	338	100	357	100	168	100	863	100
Displaced	45	13	43	12	5	3	93	11

Disturbance	Lower		Upper		Total			
	Points	%	Points	%	Points	%		
Heavy	30	6	15	3			45	5
Light	280	56	270	62			550	59
Undist.	190	38	152	35			342	36
TOTAL	500	100	437	100			937	100
Displaced	33	7	35	8			68	7

72809003

DATE Oct. 17, 1996

CUTTING METHOD Hand

SERVER Kuennen/Brooks

SKIDDING METHOD Tractor

DISTRICT Cabinet

HAZARD TREATMENT _____

SALE Beetle Bug Salvage

SILVICULTURAL TREATMENT IT

Unit No. 728-09-003 75A

OPERATION PERIOD Winter '95

COMPACTION (Heavy) ① ③

COMPACTION (Light) 90/ 140

UNDISTURBED 110/ 170

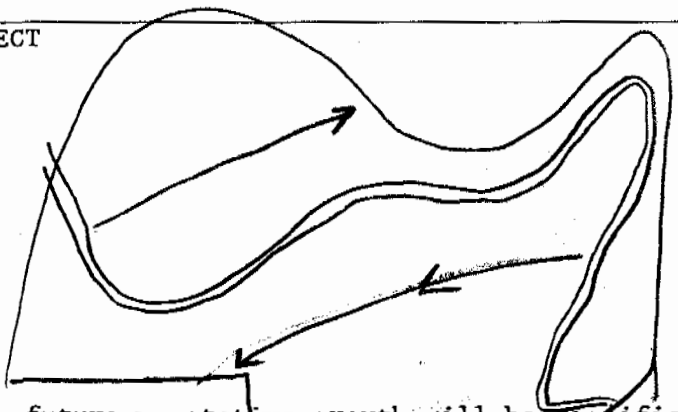
DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ _____

COMMENTS Winter operation. See evidence of fairly old skid trails.

SHAPE OF UNIT AND PATTERN OF TRANSECT



COMPACTION (Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

COMPACTION (Light) - any other area not included in heavy COMPACTION or UNDISTURBED.

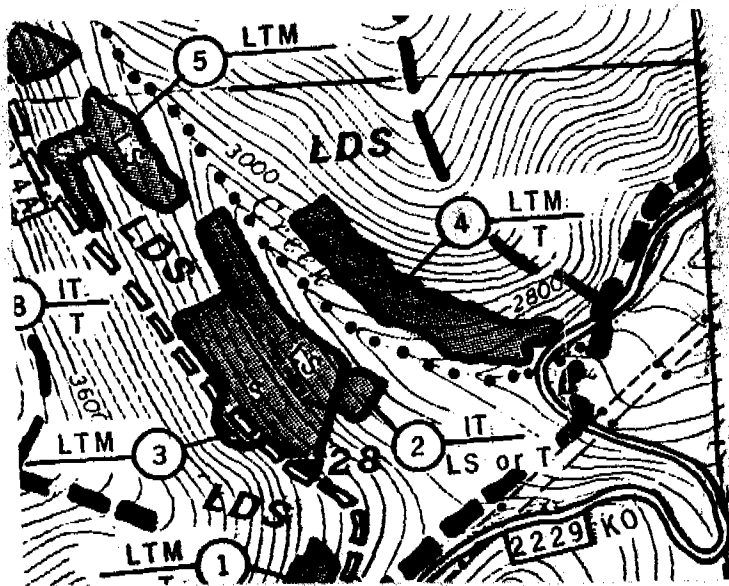
UNDISTURBED - no signs of any machinery or skidding activity.

DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

Disturbance	Upper		Lower		Total			
	Points	%	Points	%	Points	%		
Heavy	1	0	3	1			4	1
Light	90	39	110	39			200	39
Undist.	140	61	170	60			310	60
TOTAL	231	100	283	100			514	100
Displaced	0		2				2	0

Disturbance							Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	41	5					41	5
Light	502	67					502	67
Undist.	207	28					207	28
TOTAL	750	100					750	100
Displaced	54	7					54	7



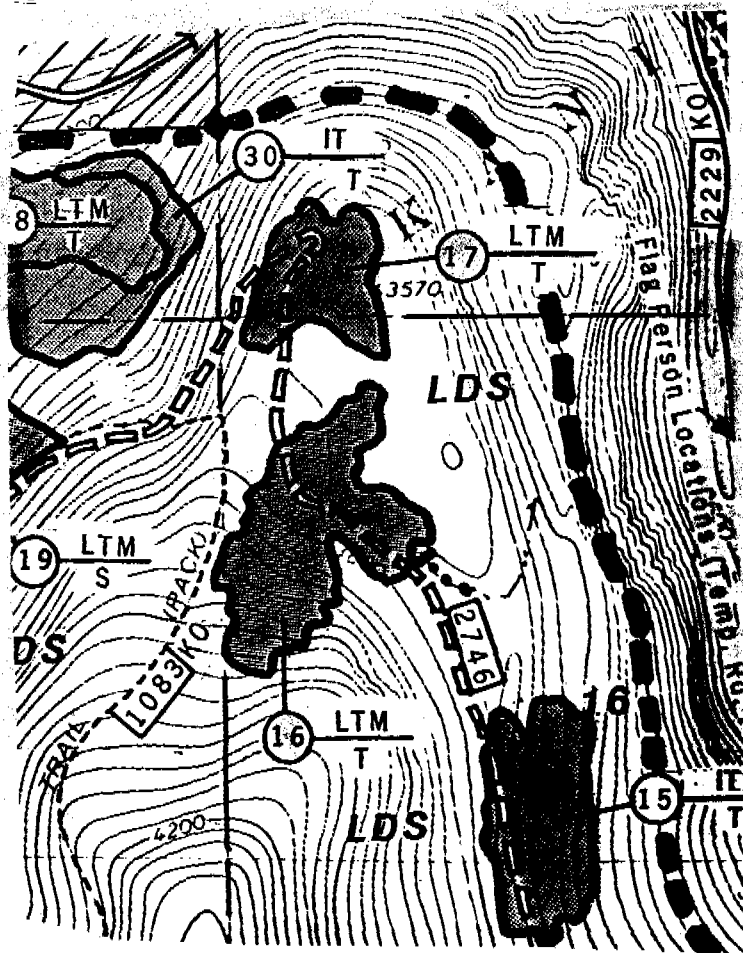
Below Rd 2746C

Distance	Points	%	Points	%	Points	%	Total
Heavy	38	9	195	40	230	64	443
Light							
Undist.							
TOTAL							100
Total							Points %

Above Rd 2746C

Distance	Points	%	Points	%	Points	%	Total
Heavy	5	2	165	72	170	26	340
Light							
Undist.							
TOTAL							100
Total							Points %

Disturbance							Total	
	Points	%	Points	%	Points	%	Points	%
Heavy	25	9						
Light	180	64						
Undist.	75	27						
TOTAL	280	100						
Displaced	0	0						



1 = 10102001 - 65 10102012 - 42

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

4 = 10503025 - 15
= 10503024 - 20

3 = 10503026 - 27

DATE Jan. 17, 1996 01/17/1996

OBSERVER Kuennen

DISTRICT Rexford Rexford

SALE Dodge Cr. Fuels
Unit No. 1, 3 & 4

Dodge Creek Fuels, Unit 1, 3 & 4
10102001, 10503026, 10503025

CUTTING METHOD Hand

SKIDDING METHOD RTS

HAZARD TREATMENTS slashing 144 Jack pot burning

SILVICULTURAL TREATMENT LTM 3-Ep. pile

OPERATION PERIOD Winter '95-'96

HT. 312 Slope 410
Ele. 2600 location - lower

COMPACTION (Heavy)

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS Winter operation - Nearly flat. Looks very good!

SHAPE OF UNIT AND PATTERN OF TRANSECT

COMPACTION (Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

COMPACTION (Light) - any other area not included in heavy COMPACTION or UNDISTURBED.

UNDISTURBED - no signs of any machinery or skidding activity.

DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.

11304115-12A

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

03/29/1996
Rexford - North Fork West Fire Salvage
Unit 45
11304115

DATE 3/29/96 CUTTING METHOD clips/hand

OBSERVER Kuennen/Sullivan SKIDDING METHOD RTS

DISTRICT Rexford HAZARD ABATEMENT Jackpot '99

SALE North Fork West Fire Salvage SILVICULTURAL ST cut
Unit No. 45

H7-533 EG-4200 A5-SE slope 25-30 OPERATION PERIOD Jan-Feb '96

COMPACTION (Heavy) _____

Walk through

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

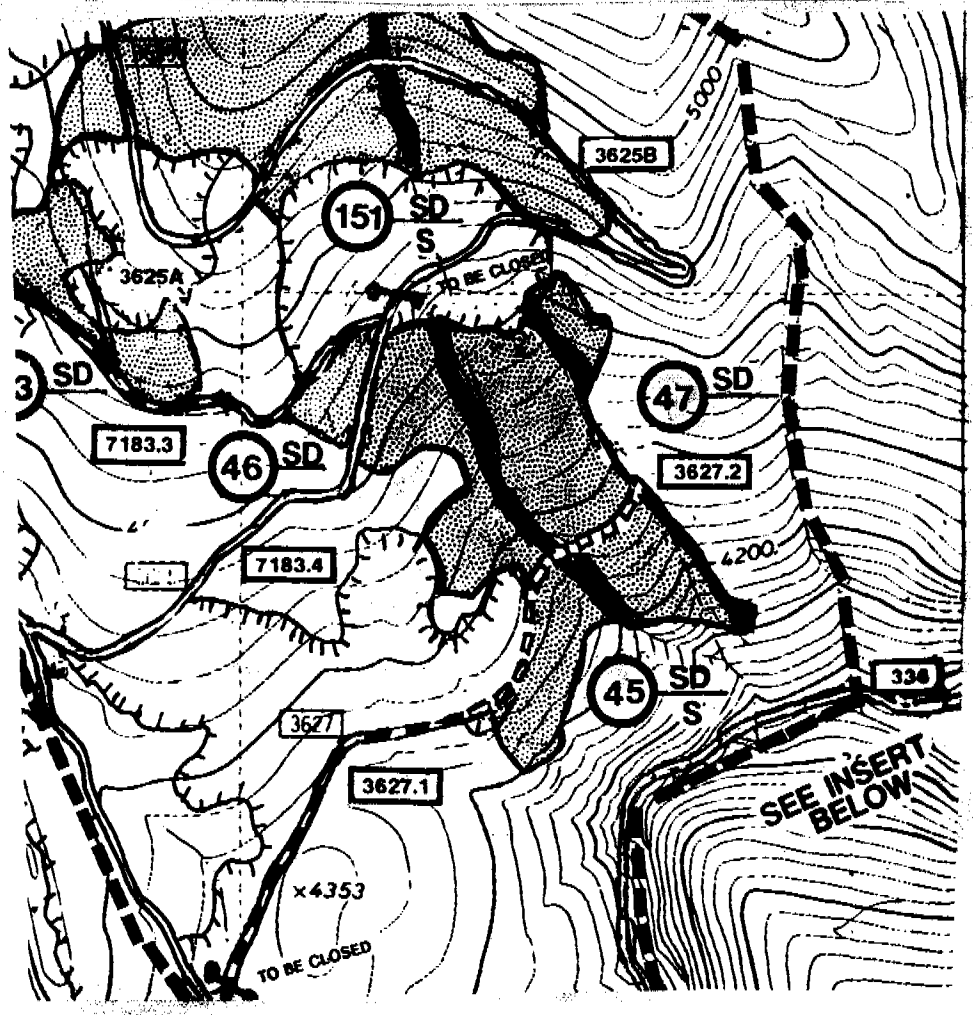
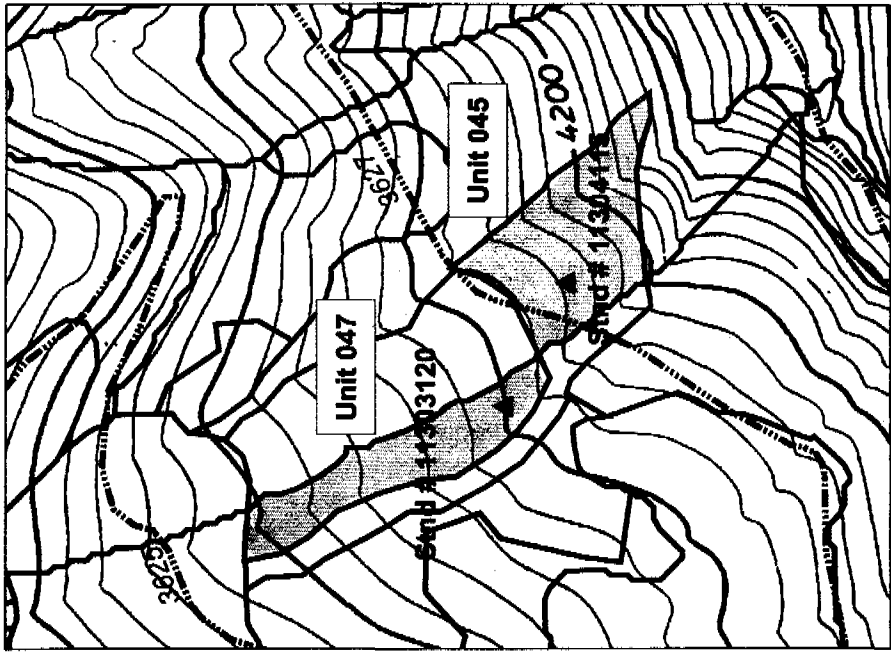
EXCAVATED SKID TRAIL _____

SMZ/ROCK _____

COMMENTS _____

Operations occurring on snow roads. Operations look very good. Proceeding at the landing. Temp. road into units to be put to bed.

Shape of Unit and Pattern of Transect



*Sale maps differed from
 current stand layer, which
 agrees w/ acreage. rlc 7/11/03*

11303120
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

03/05/1996
Rexford - North Fork West Fire Salvage
Unit 47
11303120

DATE 3/5/96

CUTTING METHOD clipper

OBSERVER Kuennen/Emery

SKIDDING METHOD RTS

DISTRICT Rexford

HAZARD ABATEMENT Jack pot '99

SALE North Fork West Fire Salvage
Unit No. 47 9A

SILVICULTURAL ST cut

OPERATION PERIOD Jan-Feb '96

HT-621, EL-4500. A₅-SE

COMPACTION(Heavy)

Walk through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS Operation look very good! Lots of snow - snow roads
Processing at the landing.

Shape of Unit and Pattern of Transect

UNITED STATES NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

10/10/1996

Fortine - Twin Meadows Fire Salvage
Unit 1, 2, 3, 4

35406069
35407007
35406071/
35407002
35407011

DATE Oct-10, 1996

CUTTING METHOD Clipper

OBSERVER Knennen

SKIDDING METHOD RTS w/ grapple

DISTRICT Fortine

HAZARD TREATMENT _____

SALE Twin Meadows Fire Salvage
Unit No. 1, 2, 3, 4

SILVICULTURAL TREATMENT 2 & 3 LTM, 4 Spdes.

OPERATION PERIOD Jan - Feb. 1996, June '96

COMPACTION (Heavy) Walk through!!
1. 354-06-069 10A 3. 354-06-071 9A
2. 354-09-009 12A 4. 354-09-003 17A
5. 354-09-011 25A

① CC w/ reserves ② CC w/ reserves

COMPACTION (Light) ③ CC w reserves ④ ~~CC~~ ST Seed cut

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ _____

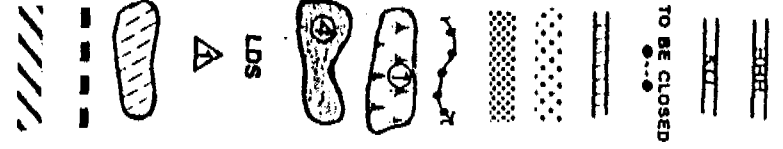
COMMENTS Review of these units was part of a Sale Administrator certification for Ed Ferruggio. Units 2 & 3 were winter logged. The only way to get in where the skid trails were was by the accumulation of sticks etc. & the mangled stumps. No removal occurred in the SMZ; no machinery entered the STA. No disturbance occurred in Units 1, 2, & 3 except at the landing. Unit 4 was summer logged. Some compaction occurred in the main trail. Generally everything looked good, especially w/ the lack of organic mat & slash. Volcanic ash is present. Area very susceptible to overland flow!

SHAPE OF UNIT AND PATTERN OF TRANSECT

Winter logging in Units 1, 2 & 3 was excellent.
Summer logging in Unit 4 was good. I would estimate less than 5% heavy compaction!

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COMPACTION (Light) - any other area not included in heavy COMPACTION or UNDISTURBED.
UNDISTURBED - no signs of any machinery or skidding activity.
DISPLACED - any place soil has been mounded by machinery, also include in heavy or

ENTIRE	LANI	ACI	UN
YAF	CLEA		
X=Y	X=		



ING ROAD, HAULING RESTRICTED, C5.12#

ROAD OPEN, B6.22

: CLOSED, C5.51#

IFIED RECONSTRUCTION, B5.2, A9

IAL TREATMENT AREA, C6.4#

AM MANAGEMENT ZONE, C6.50#

AMCOURSE PROTECTION, C6.51

E TREE MARKING, C2.35# (OPT C)

NATION FOR CUTTING, C2.352# (OPT 1) and
PECIES DESIGNATION, C2.38#

DEAD STANDING, C2.38#

IAL SOURCE, C5.221#, A11

ING UNIT

AREA BOUNDARY

OTHER THAN FOREST SERVICE

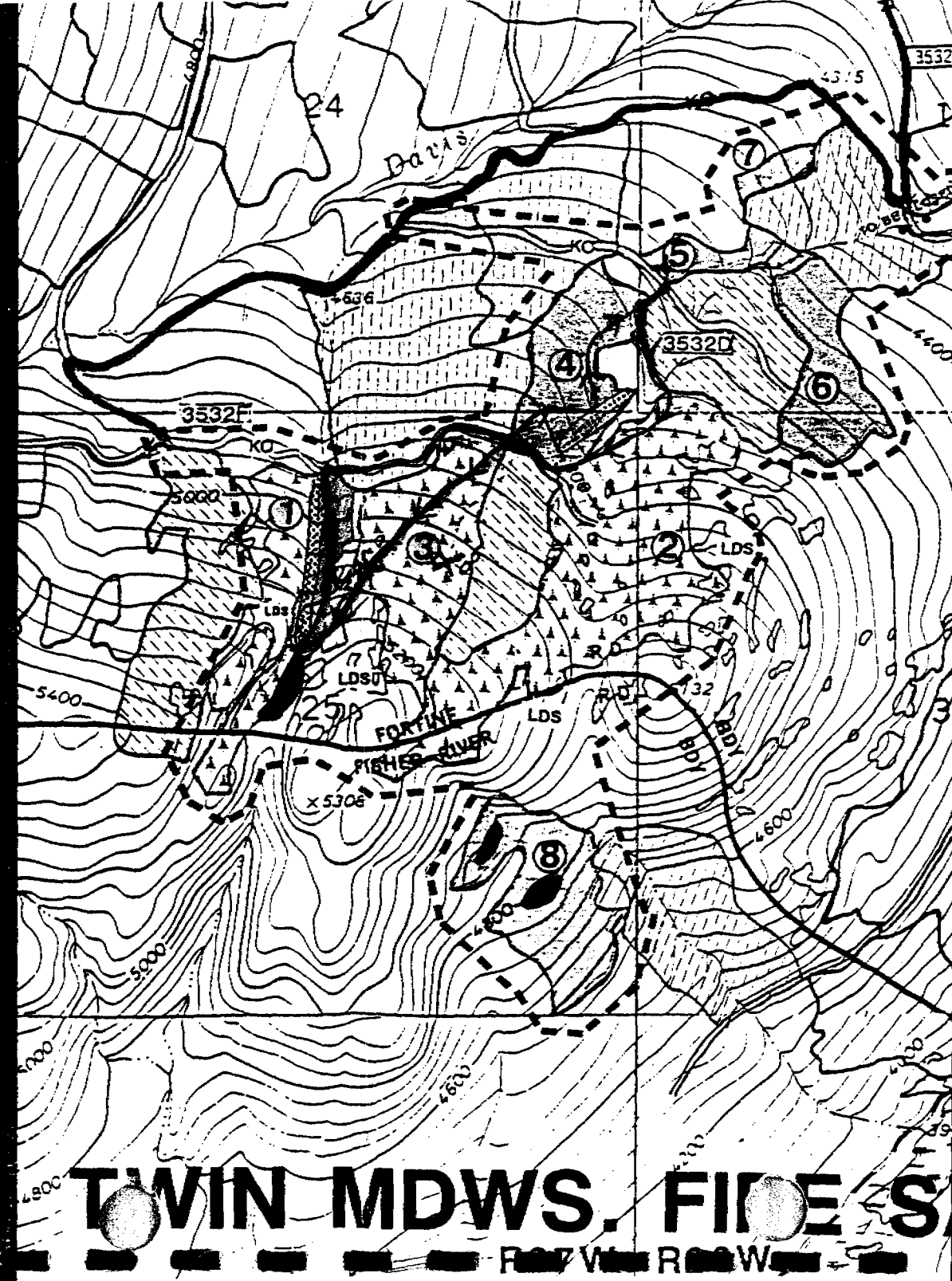
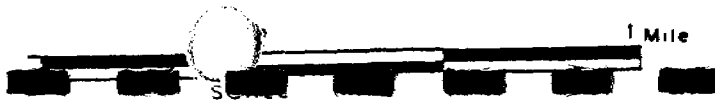
Weight Sale

STA - SMZ

*10/10/96
walk through*

TWIN MEADOWS FIRE SALVAGE
PURCHASER SLASH TREATMENT
LEGEND

1	2	3	4	5	6	7	8
28	73	36	22	6	21	3	29
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X



TWIN MDWS. FIRE S

10 42704118 - 29A

17 42704118 - 140A

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

01/23/1996
Three Rivers
- Fowler
Fire Salvage
Unit 10 & 17
42701178
42704118

DATE 1/23/96

CUTTING METHOD clipper/hand

OBSERVER Kuennen/M. Pelton

SKIDDING METHOD RTS

DISTRICT Three Rivers

HAZARD ABATEMENT _____

SALE Fowler Fire Salvage
Unit No. 10 + 17

SILVICULTURAL Regeneration Cut CC w/reserve

HT-732/740 El-5060-5200, As-SW-NW OPERATION PERIOD Jan '96

COMPACTION (Heavy) slope 25-35

walk-through

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ/ROCK _____

COMMENTS Operation occurring on snow roads. Snow very deep. No impact to soil. Need to be sunk to create opening in berms along edge of roads.

Shape of Unit and Pattern of Transect

1994 Grapple pile, 1995 burn
CC w/ Reserves
Hand sawn
RTS

42202165 40
42201449 31A
42202159
also 10+16 422-02-164
10A

DATE 7.18.96
OBSERVER Kuennen
DISTRICT Three Rivers
SALE Mud Little UNIT # 14
422-02-162 25A

Wt/Clun Planted to WL, DF, WWP

~~Walk through!~~

COMPACTION HEAVY

COMPACTION LIGHT

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS

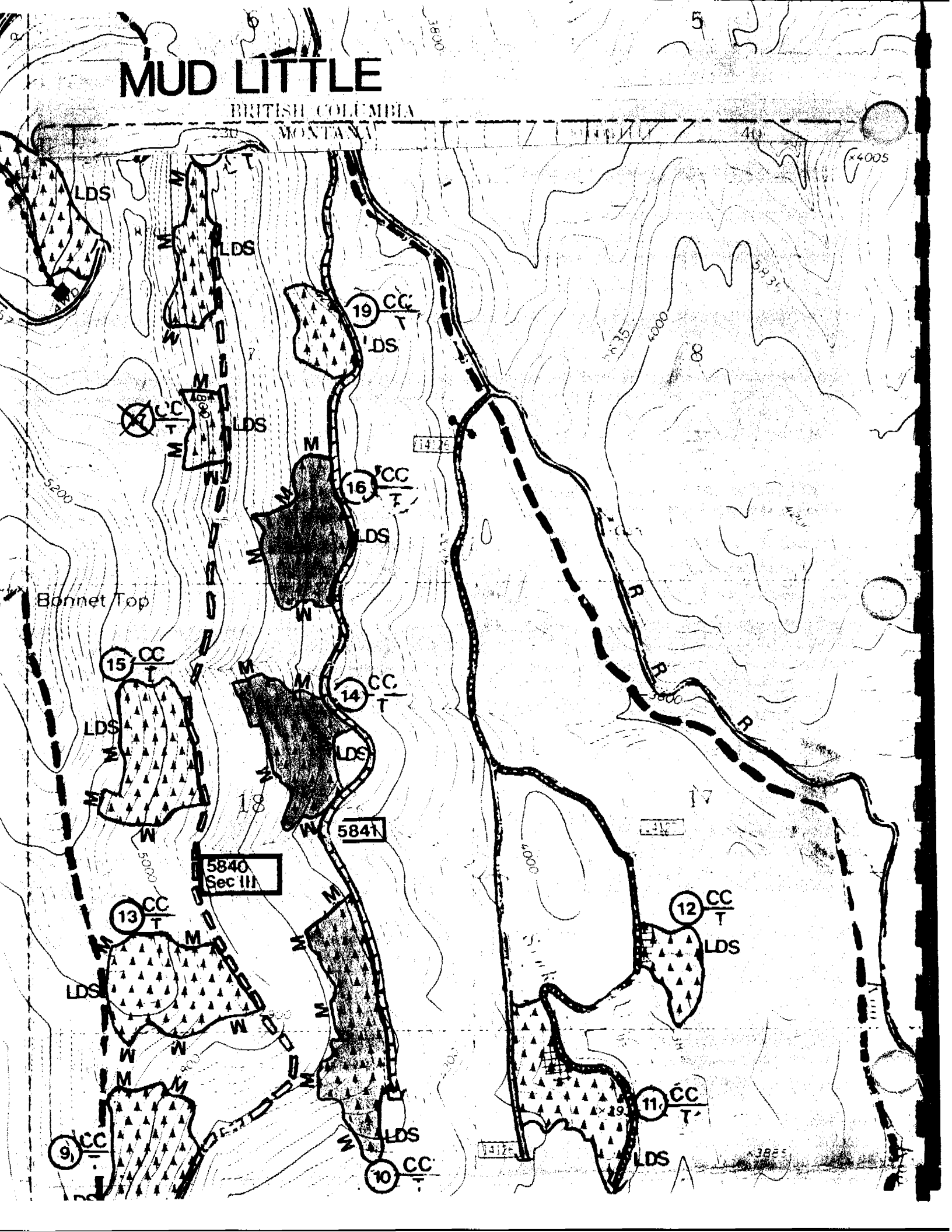
No transects were made. Looks like delimited trails for skidding. Erosion occurring on part of the trails.
- Feel that the trail coming directly down slope to landing needs slash placement. Skidding was such that there is a berm along side of trail. Can use debris that has accumulated on edge of trail.
- Landing should be ripped.

SHAPE OF UNIT AND PATTERN OF WALK THROUGH.

Have some problem w/ unit layout on units 10, 14, 16.

MUD LITTLE

BRITISH COLUMBIA
MONTANA



45303179 - 3

09/17/1996
Three Rivers - Studebaker Fire Salvage
Unit 16
45303179

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 9-17-96

CUTTING METHOD hand

OBSERVER Kuennen

SKIDDING METHOD cable

DISTRICT Three Rivers

HAZARD ABATEMENT _____

SALE Studebaker F.S.
Unit No. 16 3A

SILVICULTURAL ST seed cut

OPERATION PERIOD Jan. '96

COMPACTION(Heavy) _____

COMPACTION (Light) Walk Through

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ/ROCK _____

COMMENTS

Small old debris failure in drainage. No impact to soil.

Shape of Unit and Pattern of Transect Walk Through

DATE 9-17-96

CUTTING METHOD hand

OBSERVER Kuenne

SKIDDING METHOD cable

DISTRICT Three Rivers

HAZARD ABATEMENT

SALE Studebaker Fire Salvage
Unit No. 17

SILVICULTURAL SW seed

HT-624 EL-5500 AS-S 7A slope 35

OPERATION PERIOD Aug '97

COMPACTION (Heavy)

Walk Through

COMPACTION (Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS

small
Old debris failure in corner of unit. Recommend no road or
no removal around or above failure. No impact to soil

Shape of Unit and Pattern of Transect Walk - through

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

09/23/1996
Three Rivers - Fowl Ball
Unit 19
42702104

DATE 9.23.96 CUTTING METHOD Hand

OBSERVER Kuennen/Moeller/Bajonet SKIDDING METHOD RTS

DISTRICT Three Rivers HAZARD TREATMENT Excavator Pile

SALE Fowl Ball RE-AD SILVICULTURAL TREATMENT Species Des. LPP

Unit No. 19 9A OPERATION PERIOD Jan-Feb. 1996

SAF
Walk through! 427-02-104

COMPACTION(Heavy)

COMPACTION(Light)

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ

COMMENTS No transects! Walk through! The unit is long & linear & flat. It is on an old lakebed. Soil material is fine sand. Volcanic ash is scattered - absent, mixed, present. Three major trails were used to skid from far end of unit to landing. Soil compaction is evident in these trails. About 5 percent of the unit is in trails. A soft layer is present over almost all of the unit - very little is disturbed. More than sixty percent of the unit had machinery on it. A charcoal layer is present, over all the unit, at the soil surface.

SHAPE OF UNIT AND PATTERN OF TRANSECT

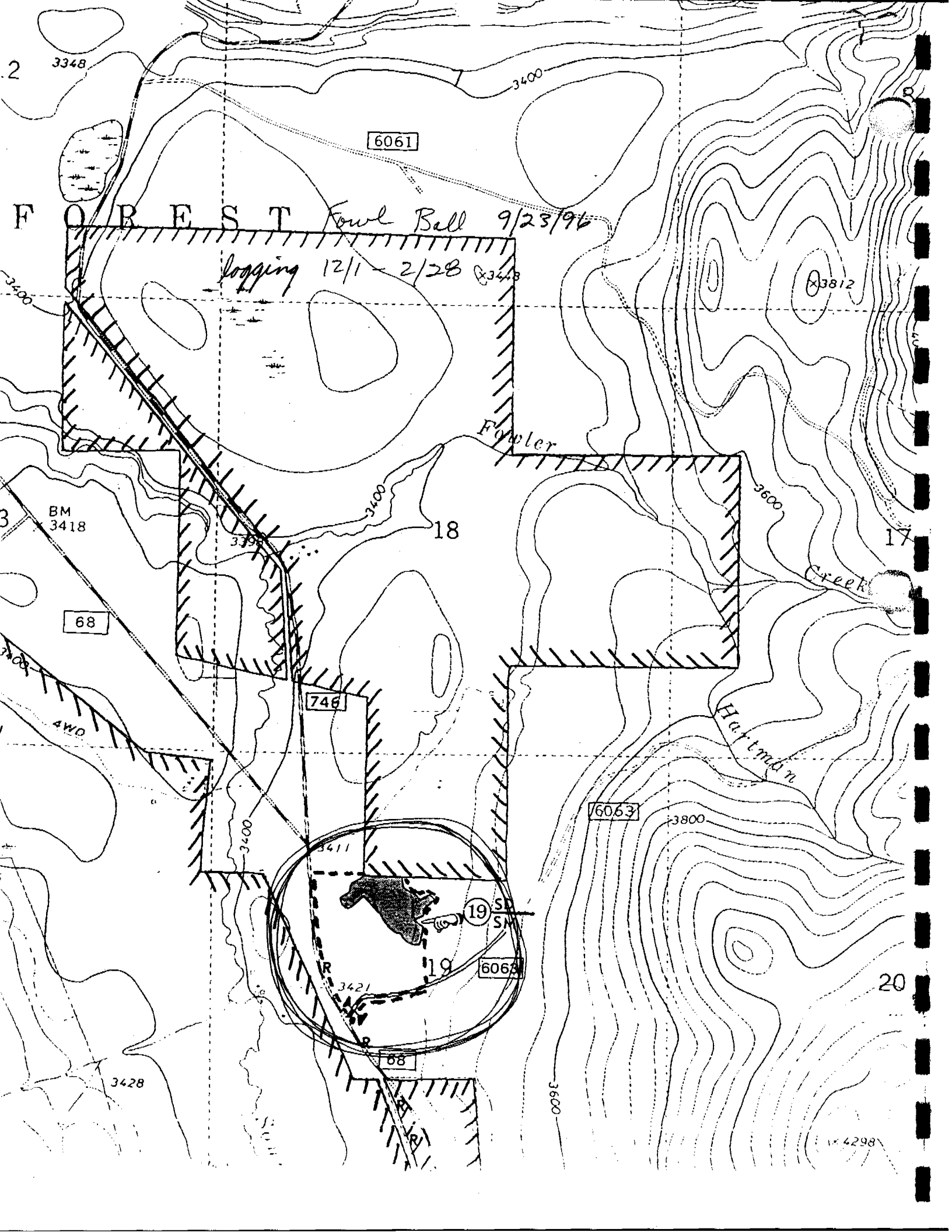
COMPACTION(Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED.

UNDISTURBED - no signs of any machinery or skidding activity.

DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.

SMZ - include within transect if within harvest unit.



FOREST Fowl Ball 9/23/96

logging 12/1 - 2/28

6061

33812

18

17

Creek

BM 3418

68

746

Hartman

6063

19

6064

20

88

3428

3600

4298

SOUTH

AWD

51404048 - 41

51705020 - 36

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

11/29/1996
Libby - Sheldon Interface
Unit 5 51404048/51704020

DATE 11/29/96

CUTTING METHOD clipper

OBSERVER Kuennen / Corda

SKIDDING METHOD RTS

DISTRICT Libby

HAZARD ABATEMENT _____

SALE Sheldon Interface
Unit No. 5 77A

SILVICULTURAL Improvements

OPERATION PERIOD Dec '95 - Jan '96

COMPACTION (Heavy) _____

COMPACTION (Light) Walk through

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ/ROCK _____

COMMENTS This project is associated w/ an overall urban interface fuel reduction north of Kootenai River. Low soil impact soil p/ayer/kerd in skid trails

Shape of Unit and Pattern of Transect walk through

02/23/1996
Libby - Prospect Parmenter
Unit 32
52301088

52301088 - 11A
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE DATA FORM

DATE 2/23/96

CUTTING METHOD clipper/hand

OBSERVER Kuennen/Crawford

SKIDDING METHOD Cable

DISTRICT Libby

HAZARD ABATEMENT understory burn '97

SALE Prospect Parmenter
Unit No. 32 11A

SILVICULTURAL Sw seed/reserve

OPERATION PERIOD Jul/Aug '96

HT-312 El-3500, As-S Slope 50

COMPACTION(Heavy) _____

walk through

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ/ROCK _____

COMMENTS _____

Shape of Unit and Pattern of Transect

SOIL DISTURBANCE DATA FORM

10/04/1996
 Cabinet - Genos Vex SSTS
 Unit 1 & 2
 74101054/74105054

74105054

DATE Oct. 4, 1996

CUTTING METHOD Hand

SERVER Kuennen

SKIDDING METHOD Horse

DISTRICT Cabinet

HAZARD TREATMENT _____

SALE Genos's Vex SSTS

SILVICULTURAL TREATMENT ITM

Unit No. 1 + 2 53 Acres

OPERATION PERIOD Summer 1996

Walk through!

741-05-054

COMPACTION(Heavy) _____

COMPACTION(Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ _____

COMMENTS This was one of the sales reviewed as part of the KNE salvage sale monitoring. Hand felled/horse tractor skidded. A small tractor w/ trailer was used where it could stay on skid trails that had been created by previous logging. Some gouging was occurring in picking trails where the log mules were digging in. Little or no impact was occurred off the skid trails.

SHAPE OF UNIT AND PATTERN OF TRANSECT

- COMPACTION(Heavy) - any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.
- COMPACTION(Light) - any other area not included in heavy COMPACTION or UNDISTURBED.
- UNDISTURBED - no signs of any machinery or skidding activity.
- DISPLACED - any place soil has been mounded by machinery, also include in heavy or light compaction.
- SMZ - include within transect if within harvest unit.

GENO'S VEX SSTS

10/4/96

SALE AREA, HAZARD REDUCTION AND SITE PREPARATION MAP

LANDLINES ARE APPROXIMATE

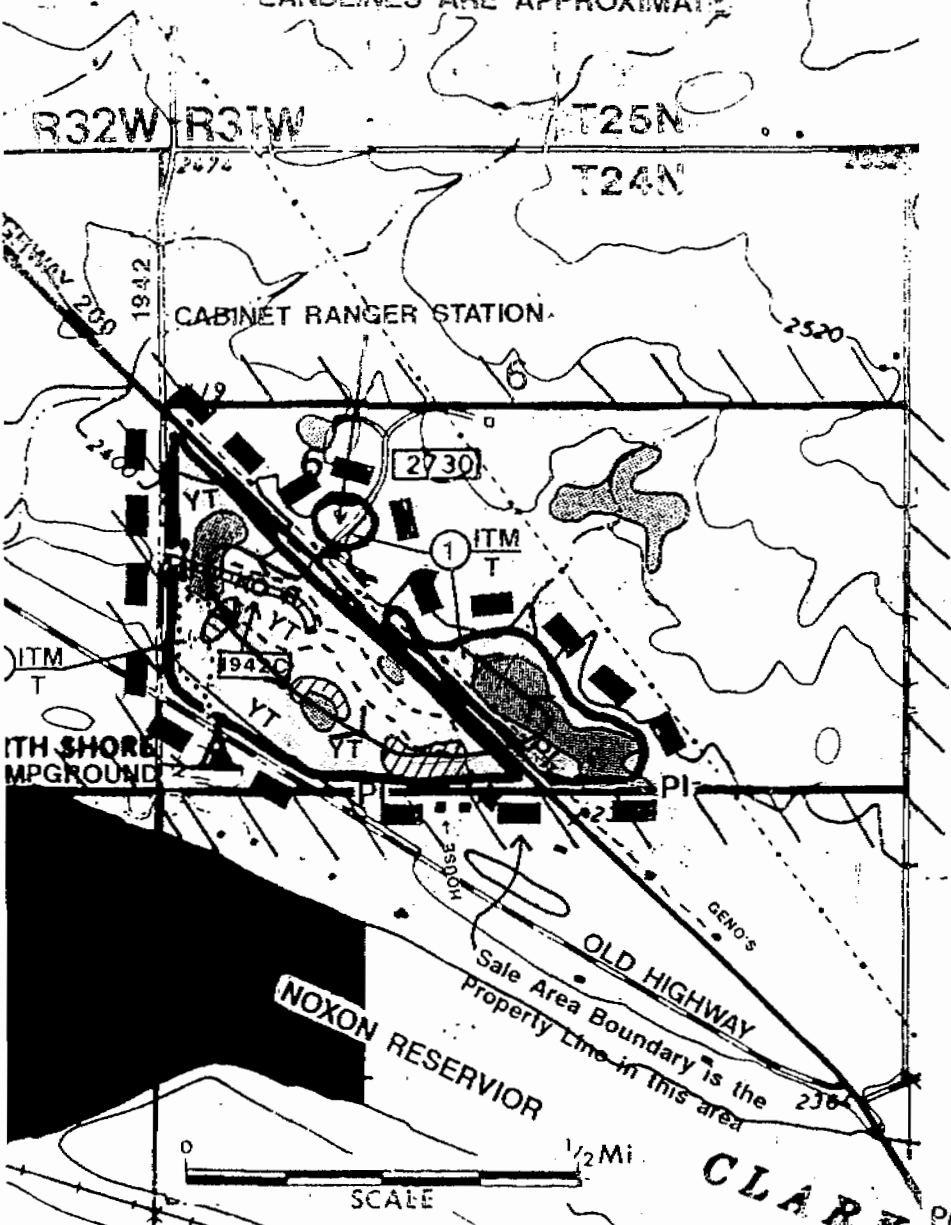
FAX TRANSMITTAL

To: *Pat Potter* From: *Mike*

Dept. Agency: *SC - Res. Serv.* Phone: _____

Fax #: _____ Filer #: _____

NSN 75-300-000-0000 5010-108 5010-108-000-0000



LEGEND

- ROAD NUMBER
- SALE AREA BOUNDARY, BT1.1
- EXISTING TRANSPORTATION SYSTEM ROAD, BT5.12
- EXISTING ROAD, HAULING RESTRICTED, CT5.12#
- EXISTING TRAIL
- KEEP ROAD OPEN, BT6.22
- SPECIFIED ROAD RECONSTRUCTION, BT5.2, AT9
- UNSUITABLE FOR HAULING PRIOR TO AGREED RECONSTRUCTION, CT5.12#
- EXISTING UNIT
- INDIVIDUAL TREE MARKING, BT2.35, CT2.351#
- EXISTING CLOSURE, TO BE CLOSED, CT5.51#
- PROTECT KNOWN SURVEY MONUMENT, CT6.23
- PROTECT IMPROVEMENT, (powerline) BT6.22, CT6.41#
- PROTECT IMPROVEMENT, (fence) BT6.22, CT6.41#
- OTHER THAN NATIONAL FOREST OWNERSHIP
- TRACTOR SKIDDING SPECIFIED, BT6.42, CT6.4#

HAZARD REDUCTION REQUIREMENTS

- Unit 1
- All Units
- HAND PILE, CT6.7#
- MACHINE PILE AND SCARIFY, CT6.7#
- LANDING CLEANUP, CT6.7#
- YARD TOPS, CT6.7#

PAYMENT UNIT NUMBERS ARE THE SAME AS UNIT NUMBER MSG

SOIL DISTURBANCE DATA FORM

10/04/1996
Cabinet - Pilik Horse Salvage
Unit 1
70601005

70601005

DATE Oct 4, 1996

CUTTING METHOD Hand

OBSERVER Kuennen

SKIDDING METHOD Horse (Howard Page)

DISTRICT Cabinet

HAZARD TREATMENT _____

SALE Pilik Horse
Unit No. 1 198 Acres

SILVICULTURAL TREATMENT _____

OPERATION PERIOD Summer 1996

Walk Through!!

706-01-005

COMPACTION (Heavy) _____

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ _____

COMMENTS This was one of the units reviewed as part of the KNF salvage site monitoring. Hand felled horse logged. Very little impact observed. In several of the trails where a lot of skidding occurred, the butt end of the log was gouging the soil. This occurred in trails that had been created in two previous entries. The current logging had little or no impact off the skid trails, and minimal amount on the old trails.

SHAPE OF UNIT AND PATTERN OF TRANSECT

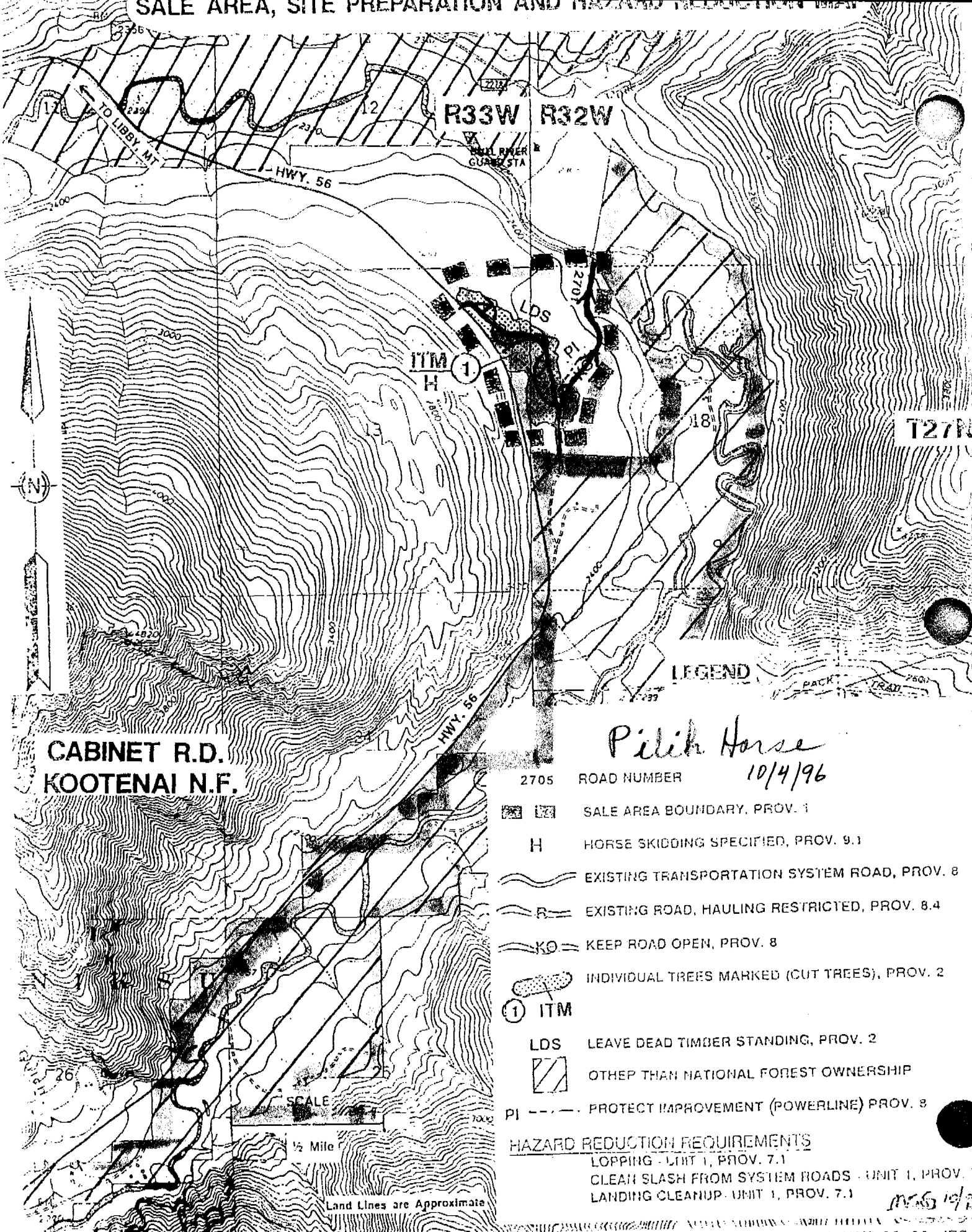
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SMZ - include within transect if within harvest unit.



**CABINET R.D.
KOOTENAI N.F.**

Pilih Horse
10/4/96

- 2705 ROAD NUMBER
- [Symbol] SALE AREA BOUNDARY, PROV. 1
- H HORSE SKIDDING SPECIFIED, PROV. 9.1
- [Symbol] EXISTING TRANSPORTATION SYSTEM ROAD, PROV. 8
- [Symbol] EXISTING ROAD, HAULING RESTRICTED, PROV. 8.4
- [Symbol] KEEP ROAD OPEN, PROV. 8
- [Symbol] INDIVIDUAL TREES MARKED (CUT TREES), PROV. 2
- ① ITM
- LDS LEAVE DEAD TIMBER STANDING, PROV. 2
- [Symbol] OTHER THAN NATIONAL FOREST OWNERSHIP
- PI --- PROTECT IMPROVEMENT (POWERLINE) PROV. 8
- HAZARD REDUCTION REQUIREMENTS
- LOPPING - UNIT 1, PROV. 7.1
- CLEAN SLASH FROM SYSTEM ROADS - UNIT 1, PROV. 7
- LANDING CLEANUP - UNIT 1, PROV. 7.1

SCALE

1/2 Mile

Land Lines are Approximate