

SE to DWL (w) → SE to WL (w) → SE to DWL (w) → SE to DWL (w)
 SW to Spring (w) → SW to Spring (w) → SW to Spring (w) → SW to Spring (w)
 Good Creek Sale Unit 14

5-15-92
 18

Unit 14	Unit 1	Unit 1
Undisturbed	NW corner Painted edge next to alder patch	Operations clipped, processed at stamp, chilled w/ rubber tire + D 64
Heavy slash	(78)	149
Slash, little duff Mod.	(42)	23
Light	(23)	2
Disturbed	(19)	20
Trail Light edge	(20)	60
Trail Mod edge	(21)	11
Trail center	(35)	27
Heavy slash	(32)	3
Compacted	(23)	39
Displaced center	(5)	
Rock (Surface)	(21)	1
Alder	(1)	
Spring area		35
Old shed trail		369
	364	369

Undisturbed 1991

Light 1991

Heavy 1991

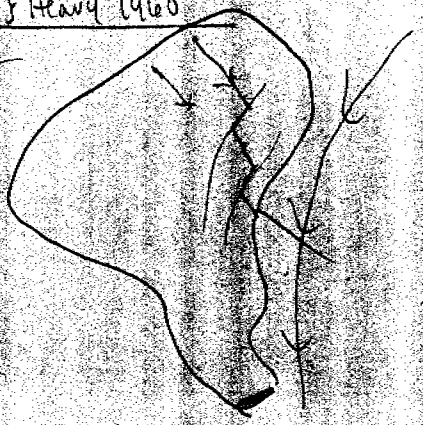
13 displaced HB 4/10/98 per LK.

Undisturbed 1991

Heavy 1990

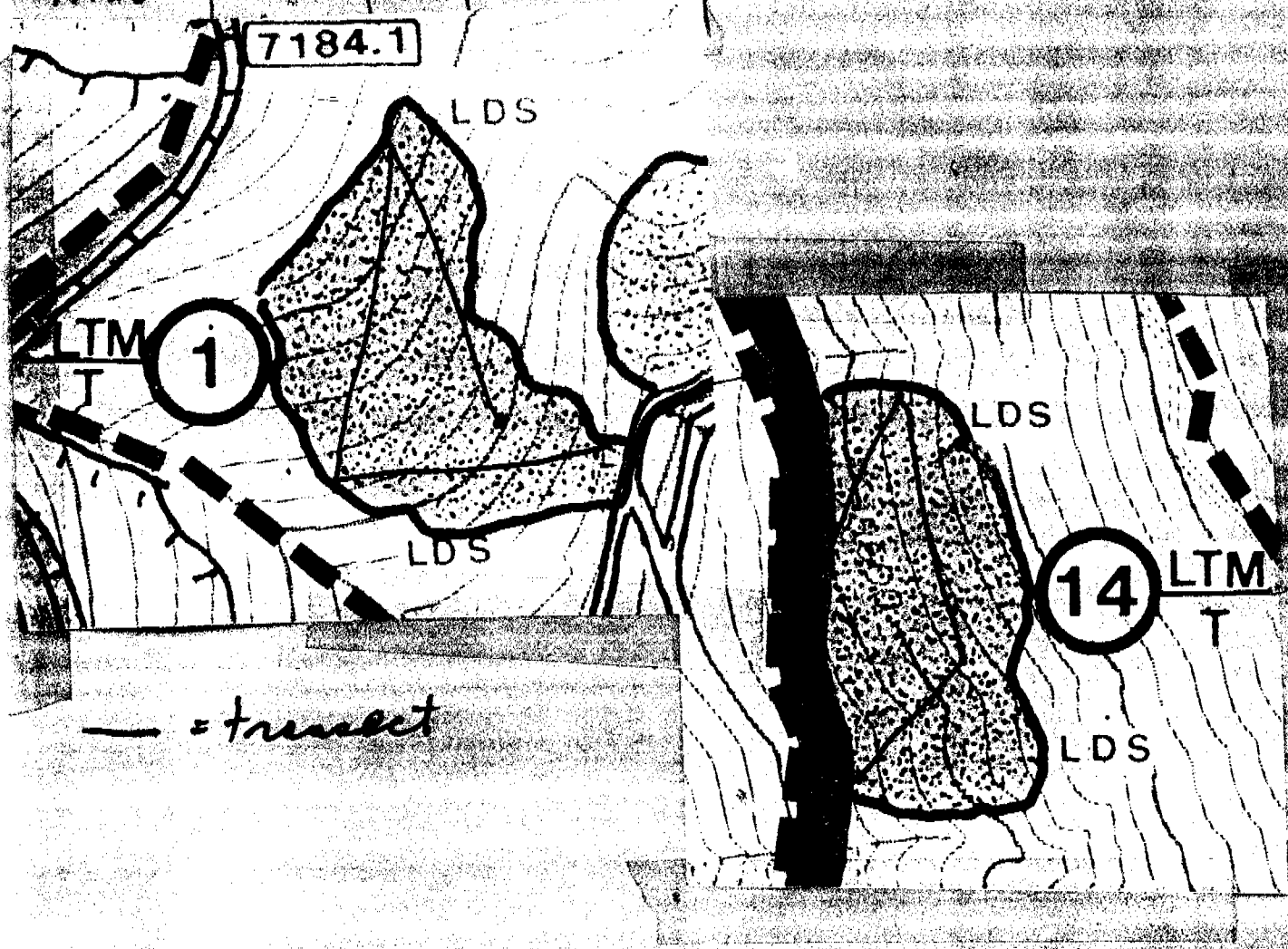
05/15/1992 Good Creek Sale Unit 14

○ Moderate to severe compaction



W.K. at 2/8/10

	Unit 14		Unit 1			
	Points	%	Points	%		
ump' Heavy	72	19	38	10	Heavy Light	
Light+Med	200	35	121	33		
slash	Heavy	73	19	40	Undisturbed	
	Med	42	12	23		6
	Light	23	6	2		
	Rock	5	1			
undist	alder	21	6	(1)		
	Spring	1				
	old chert			35	9	Heavy } 1960
Total	369		369			



Good Cr. Unit 16 Transects

attempt to stop slash
Peller buncher
slide boom delimeter
w/ grapple chidder

A. Above Rd 7197

E 1/2 start near gate
end near white flagging
on WL

W 1/2 start stake 19+20
end in SW corner
No attempt to stop slash

13	Compaction 12% heavy			72.8
5	50% Light & Med			55%
44	Undisturbed			38% 41
5	Displaced		④	10%

B. Below Rd 7197

Trail length
successful landing
E 1/2 start E. turnout
in middle of unit

W 1/2 start NW corner

13.3	Compaction 10% heavy 66% light			69%
4	Undisturbed			50%
4	Displaced		④	44%
20			④	21

Below - Ravell Quartzite: lots of L rock in soil. Helped to minimize disturbance. At 353 Rd need grass mats.
In my opinion there was no need to burn unit. Light burning already.
Plenty of site prep

Good Cr.

55	Compaction 15% heavy 63% light			69%
22	63% light			69%
60	32% undisturbed			69%
	Displaced		④	69%

Surface rock

1/3 of unit is 353 - lots of L rock showing at surface

Good Cr. Soil Samples

Good Creek Soil Samples - above road 7197

"After" samples

A. Above rd. 7197 (new rd)

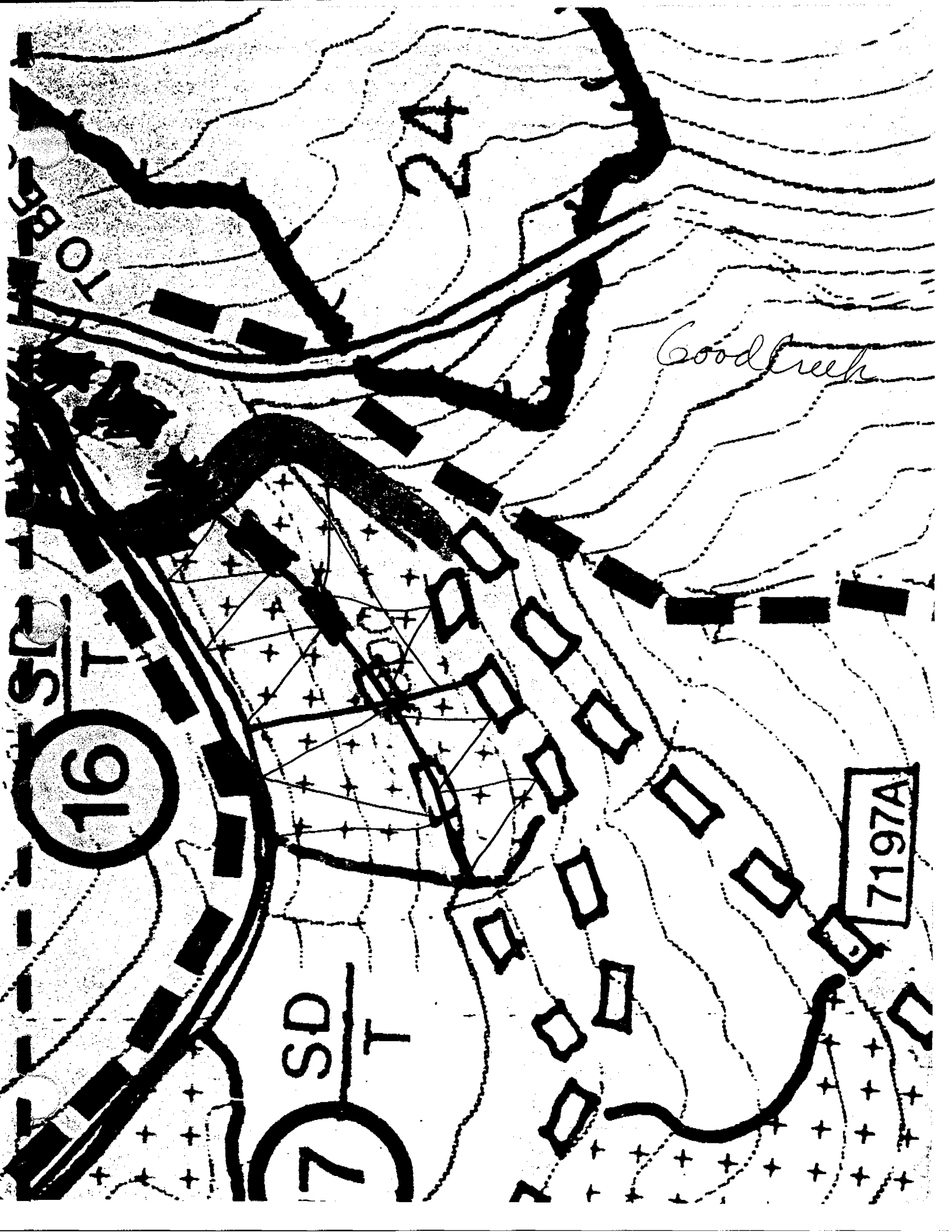
1. Landing area just above rd on W. end of unit.
2. Shid trail leading to landing above rd.
3. Depression near upper rd, W. end of unit major shid trail
4. Shid trail leading to depression, near middle of unit.
5. Shid trail on E 1/2 of unit, above rd.
6. Shid trail, ^{soil} ~~soil~~ under slash in small depression E end of
7. Shid trail near ~~rd~~ ~~unit~~ above rd.
8. Shid trail E 1/2 of unit just above rd.

B. Below rd. 7197

20. upper end of major shid trail E end of unit
10. just below rd 7197 dedicated trail/haul back slash
11. Landing SW corner of unit.
12. Dedicated trail 2/3 downhill, moped ash
13. Dedicated trail near E end of haul back slash 2/3 way to
14. Upper track
15. main trail near lower end of unit above big landing
16. main lateral, up + down hill lower end
17. main lateral upper end
- 18.
- 19.

	Above 7197				Below 7197				Unit		Unsettled (units)	
	E 1/2		W 1/2		E 1/2		W 1/2					
53	13	12	8	7	11	6	56	75	53	9		
336	56	50	58	53	66	89	50	225	63	336	66	
223	34	35	50			44	60	22	123	31		
30	①	③	④	⑤	⑥	④	②	⑧	③	30	⑤	
* Surface soil							20					
	113	106	203	180	360	602						

* included in undisturbed



TO BE

A

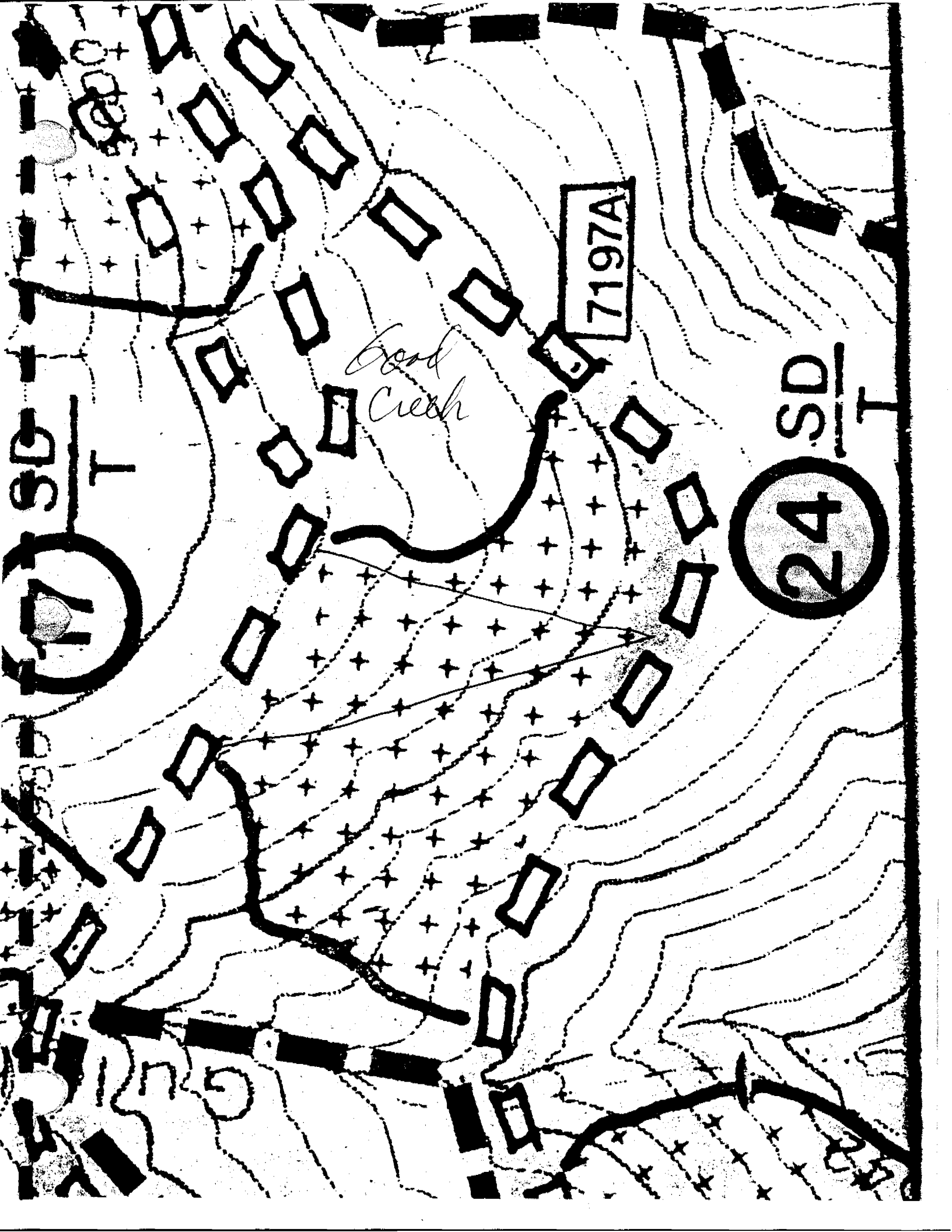
Good Creek

16

SD/T

7

7197A



*Good
Creek*

7197A

17 SD T

24 SD T

D-1

KOOTENAI NATIONAL FOREST
SOIL IMPACT DATA FORM

10/20/1992
Rexford - South Pinto
Unit 2
13303082

DATE 10.20.92

OBSERVER Kuennen

CCw/ reserved

DISTRICT Rexford

SALE South Pinto UNIT # 2

133-03-082

60A

19	<i>w/6%</i>	COMPACTION HEAVY											
											mod.		
												14	
17	<i>M/6%</i>	COMPACTION LIGHT											
												9	
19	<i>E/9%</i>	UNDISTURBED											
												6	
												165	57%
												137	49%
												154	55%
												89	30%
												113	38%
												100	36%

*w
m*

DISPLACED: _____

EXCAVATED SKID TRAIL

to side coming to landing *Mod* *Light*

SMZ

COMMENTS *Lot of disturbance in upper NW corner of unit where
alders/wet spot is.
Waterbar??
Wet area lower 1/3 W
Spruce 60 years old, 21" at stump (14")
Excavated trail lower east.
East lower (chilled in depression - pushing into wet spot*

20	<i>7%</i>	ROCK											

SHAPE OF UNIT AND PATTERN OF WALK THROUGH.

W - 293
M - 287
E - 279

S. Pinto Unit 2
Bulk Density Samples

10.20.92

1. Main trail near landing 1.16
2. Main trail W., near lower end, as it makes the bend ^{1.28, 1.05}
3. lateral trail, west side 1.42, 1.15
4. Main trail W, half way up 1.28, 1.05
5. Undist. (W) w/ alder patch .87, .81
6. Lateral trail (M) \approx 1/2 way up, on nose of ridge 1.09, .96
7. Glacial till, from root wad \approx 14" in profile
8. Main trail middle \approx 1/2 way up 1.18, 1.09
9. Main trail (E) 2/3 way up more slash left 1.45, 1.55
10. Main trail (E) 3/4 way up 1.07, 1.23
11. lateral trail (E) 3/4 way up 1.38, 1.42

South Pinto
Unit 2

	Cut to length Forwarder 2(1)		Feller-Processor 2(2)		o/o Cumm.
	No.	%	No.	%	
Heavy	4	3	51 ⁵⁵	7	59 ⁵⁵ 6
light	46	39	40 ⁴⁰⁷	54	453 52
Undist.	66 ⁶¹	55	242 ²⁹⁶	33	365 ³⁰⁸ 36
Displ.	0	0	(7)	(1)	1
rock	3	3	43	6	46 5
spring	0		(11)		

119

740

859

connections
made 02/08/01
JPK

10/23/1992
Rexford - South Pinto
Unit 4
13303084

KOOTENAI NATIONAL FOREST
SOIL IMPACT DATA FORM

DATE 10.23.92
OBSERVER Kuennen-Carfield-Hanson
DISTRICT Rexford
SALE South Pinto UNIT # 4
*not designated trails,
slide boom at stump*

28A
133-03-084
*4-5" tops required
series of main trails
Grapple - skidder*

COMPACTION HEAVY	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
COMPACTION LIGHT	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
UNDISTURBED	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
DISPLACED	<input checked="" type="checkbox"/>	..
EXCAVATED SKID TRAIL		
SMZ <u>Rock</u>

COMMENTS

SHAPE OF UNIT AND PATTERN OF WALK THROUGH.

South Pinto
Unit 4

	Slide boom 4(2)		Grapple shredder 4(1)			
	No.	%	No.	%		
Heavy	17	15	7	7	24	11
Light	58	50	62	63	120	56
Undist.	37 ³⁰	32	28 ³⁰	28	65	30
Diap	(9)	(8)	(2)	(2)	11	5
Rock	3	3	2	2	5	2
	(115)		(99)			
					214	

corrections made
02/08/01 *AK*

D-4

KOOTENAI NATIONAL FOREST
SOIL IMPACT DATA FORM

10/28/1992
Yaak - Dogwood Windy
Unit 28
43001108 / 43002103

DATE 10-28-92
OBSERVER M. Moellen
DISTRICT D-4
SALE Dogwood Windy UNIT # 28

C
Grapple skidded, clipped - small
hand fell - larger
Cat put in water bars
No piling

430-01-1082
-02-103 27A 29Ac w/ vol. of 750M

COMPACTION HEAVY

COMPACTION LIGHT

UNDISTURBED

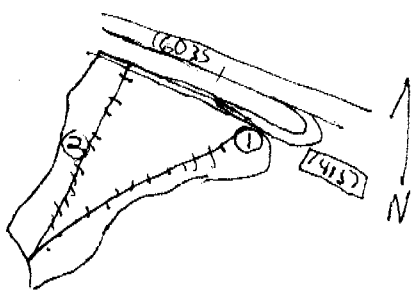
DISPLACED

EXCAVATED SKID TRAIL :

SMZ

COMMENTS This whole unit has been run over pretty well. Lots of cat tracks. The skid pattern is well spread out. There are 2-3 large piles at the landing. Some of the down trees seem pretty upright. A lot of post fire vegetation ~~is also~~ I chucked up in the soil around the loads.

SHAPE OF UNIT AND PATTERN OF WALK THROUGH.



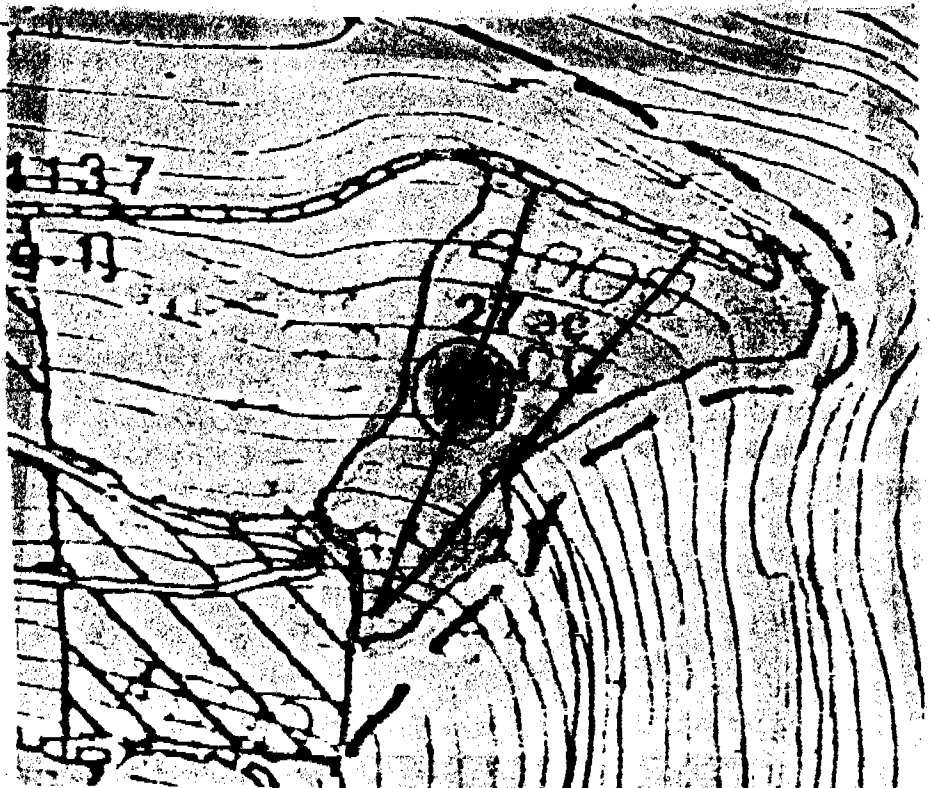
Bug Samples

- ① NE Corner of unit on a shield trail
- ② West Side unit 1/2 way down on a shield trail. This sample composed of organics - not sent in.

Dogwood Windy
Unit 28

	No.	%
Heavy	68	22
Light	186	59
Undist	58	18
Displa	125	40
Epa Shield trail	2	1
	314	

— = transect



Dug down

#1 Skid trail on NE. Corner of Unit

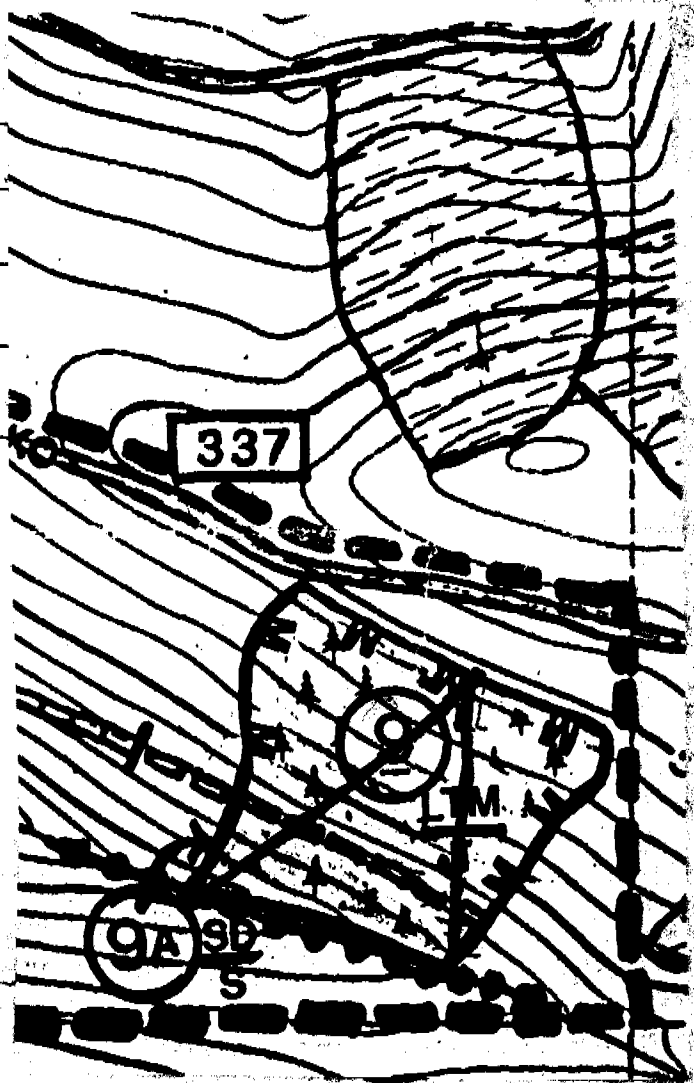
#2 On Side of Kocio that runs through Unit
Lots of sticks + other organics mixed in. Appears to be
some till also mixed in.

Upper Basin
Unit 9



Unit 9A

	No.	%	No.	%
Heavy	60	21	7	6
Light	182	62	40	35
Undist.	50	17	66	59
Displ	(110)	38	(4)	(5)
Spec Skid trail	(2)	(1)		
	292		113	



— = transect

9A skyline steeper slopes
LTM - Tractor

KOOTENAI NATIONAL FOREST
 SOIL DISTURBANCE DATA FORM

DATE 5-7-93
 OBSERVER M. Moller
 DISTRICT D-4
 SALE Upper Basin
 Unit No. 9

CUTTING METHOD Clipper
 SKIDDING METHOD Rubber Tire
 HAZARD TREATMENT None
 SILVICULTURAL TREATMENT Ltm
 OPERATION PERIOD _____

	1st Traverse	2nd Traverse
COMPACTION (Heavy)	12 7%	9 6%
COMPACTION (Light)	68	74
UNDISTURBED	63	45
DISPLACED	25	30
EXCAVATED SKID TRAIL	0	0
COMMENTS	168	158

$\frac{21}{326} = 6\%$

SHAPE OF UNIT AND PATTERN OF TRANSECT

6% - compaction

Rerun of Unit 9, also ran one myself along lower edge of unit on 5/20/93. Came out w/ 9-10%. LR

- 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.
- MZ** - include within transect if within harvest unit.

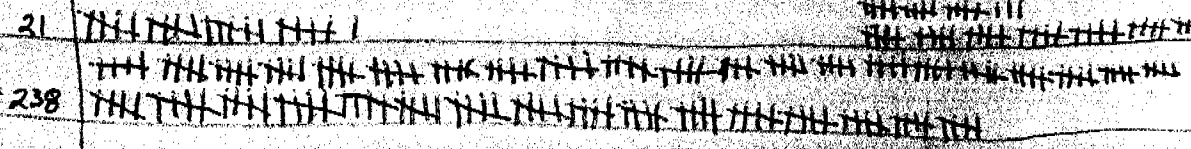
28 Acres
514-02-032

unrec'd hand saw, log length
Dec. 91 JK
8-19-92
D6
16 Aug '92

Blue-Rice Sale Unit #21 LTM Tractor log + pile to Aug '92

Compaction
Heavy

Transsect goes from SW corner to E to 14405 junction. Then transsect heads S to body (near corner of older unit), then to SW to landing ending in SMZ.



Light or Mod. 238

Displacement



Undisturbed 59

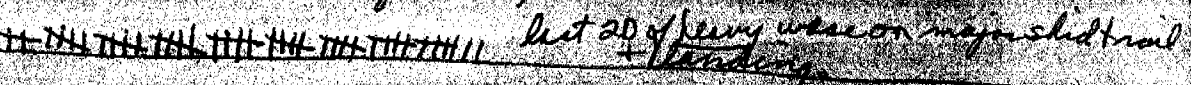
20 sample points where transsect crosses SMZ.

Very small percentage of unit w/o cat tracks. Soil surface very dry. Into soil profile, soil is moist. Good distribution of large organic debris. Soil fairly rocky w/ a few R.O. Most of compaction judged to be in slight + mod. category; a. soil moisture below 10"; b. for the most part machine rode over largest small organic debris & gobbles & amt. of material to pile was light; c. soil moisture below 10" strongly illustrates amt. of area impacted by tractor logging & piling.

Unit 17
Blue-Rice Unit 17 LTM Tractor log
Mike Mans V-D 91 Rubber tire pylon
hand saw, log length

Compaction
Heavy

Transsect starts edge to rock pt. on W edge of unit. Then ESE to rd middle of unit; then to SW



Light +

Mod. 104

Displacement



Undisturbed 1st 20 paces in undisturbed below road
Wet spot in notch, should not have been logged. Topography very broken. Old shed trails present (50-80'). Unit is mostly 5 F/Libs w/ some WRC. Soil has mixed ash surface. Lot of angular rock present. Wandings indicate high soil moisture during operation. Excellent seed germination on new construction

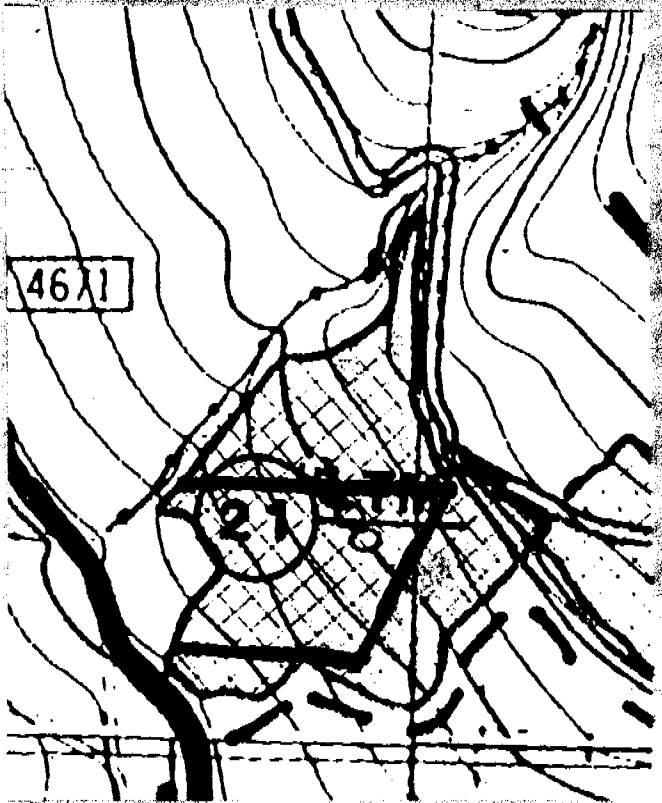
(over)

Blue-Rice

Unit 21

Unit 17

	21	7		67	21
Heavy	238	75		104	43
Light	(40)	(13)		(7)	(3)
Displaced	59	18		72	30
Undist.	318			243	



— = transect

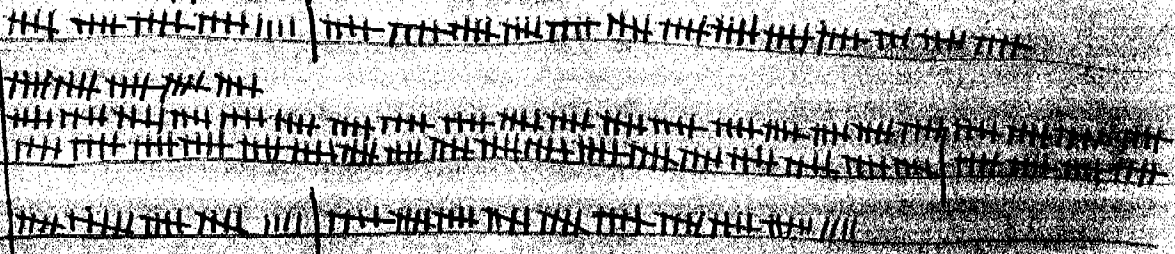
Blue Mountain Sale
Unit 2

~~573-01-080~~

along Rd 755P. The part logged in 1992. From SW corner to NE

24 - 14

65 - 23



capaction
Heavy

Light

Displaced

Disturb

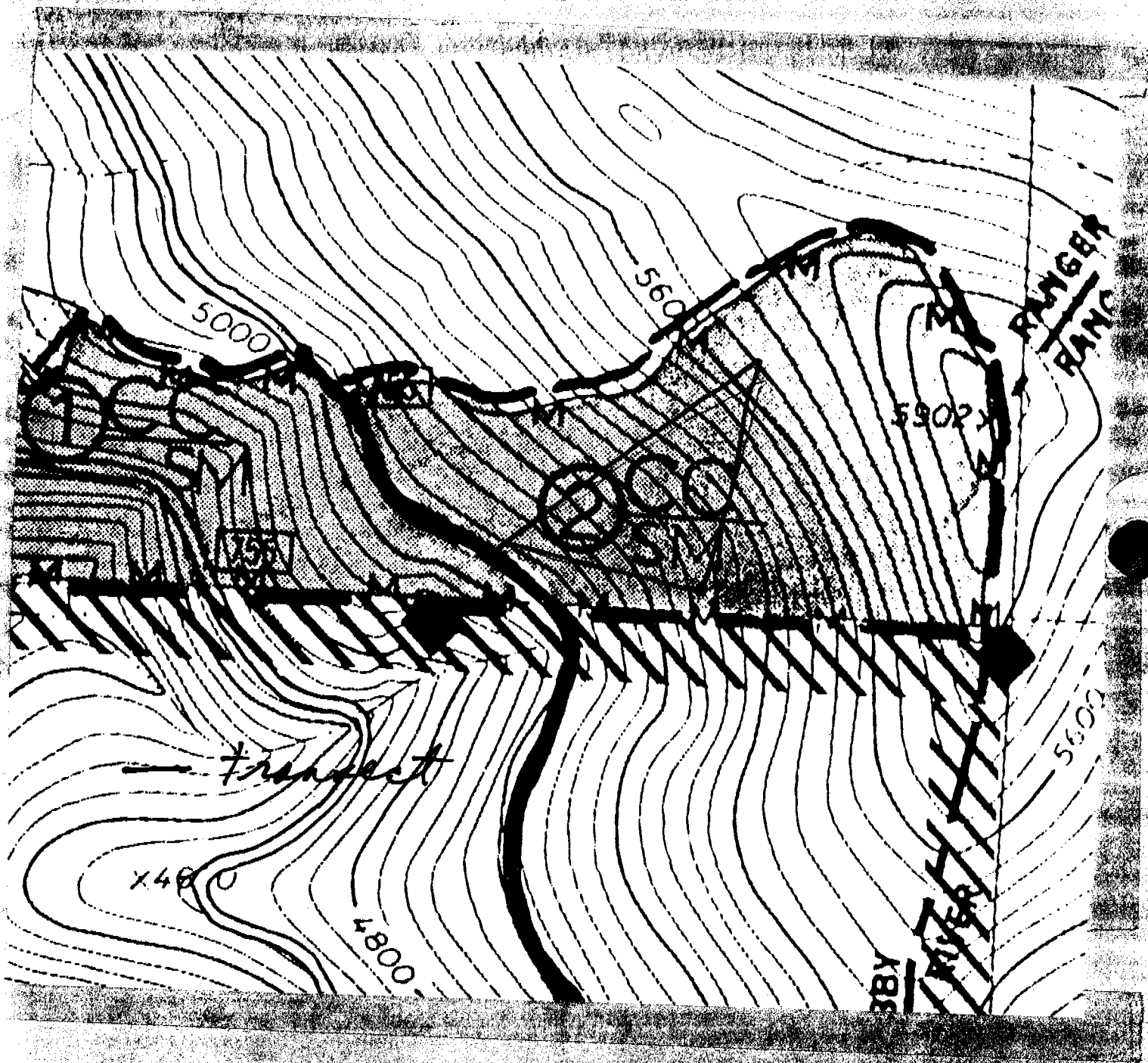
Too much debris removed. w/B coming down main from...
trails are no good! Lohy but won't drain anywhere. Want...
better to put in...
w/B Yellow-92, fed red 91???. Generally...
why not put in w/separator, pull out...
Fire line along SE bdy too close to church.

- Temp road
- Tree length
- rubber tree
- ...

	1990	1992	Cumulative
Heavy	24 14%	65 23%	20%
Light	90 53%	155 56%	55%
Displaced	24 14%	49 18%	16%
Disturb	57 33%	57 21%	25%



black = no. of pts
red = percent.



D-6

10/16/1992

10.16.92

639-06-031
15A

Homesteader Sale

Unit 4

rubber
Tractor skidder head stamp

Compaction
Heavy

|||||

combination
skid left in unit

Fisher River - Homesteader
Unit 4
58906031 63906031

Light

|||||

Undisturbed

|||||

Displaced

|||||

SMZ

|||||

Excavated skid
Trail

|||||

Comments: Generally have light impact in unit.
Started SW corner of unit

640-02-027 Homesteader Sale Unit 27 handpelled 10-16-92

15A

upper 85%

crawler tractor

Compaction
Heavy

tractor piled
upper part

ground
pulled to turn then logged

Light

|||||

Undisturbed

|||||

Displaced

|||||

Comments: between skidding + piling there is very little ground where cat did not run over. Side hill walking w/ cat did some deep displacement.
≈ 85 (upper part) was tractor piled. Lower end (15%) was not.

C.H.

C.L.

|||||

Undis.

|||||

Displ.

|||||

Feb. '92
Fraser/Thawing

Homesteader Unit 30 640-02-021 10.16.92
6 Acres

10/16/1992

hand felled, crawler
whole tree yarded

Fisher River - Homesteader
Unit 30

12 C.H.

|||||

104 C.L.

|||||

59002029 64002029

46 Undisturbed

|||||

(13) Displaced

|||||

62 Comments: Old skid trails crossed unit. WWP in stand.
Tractor logged + un-piled

Feb. '92
Fraser/Thawing

Homesteader Sale Unit 29 640-02-007 10.16.92

hand felled crawler skidded
log in unit, whole tree

30 C.H.

|||||

75 C.L.

|||||

14 Undisturbed

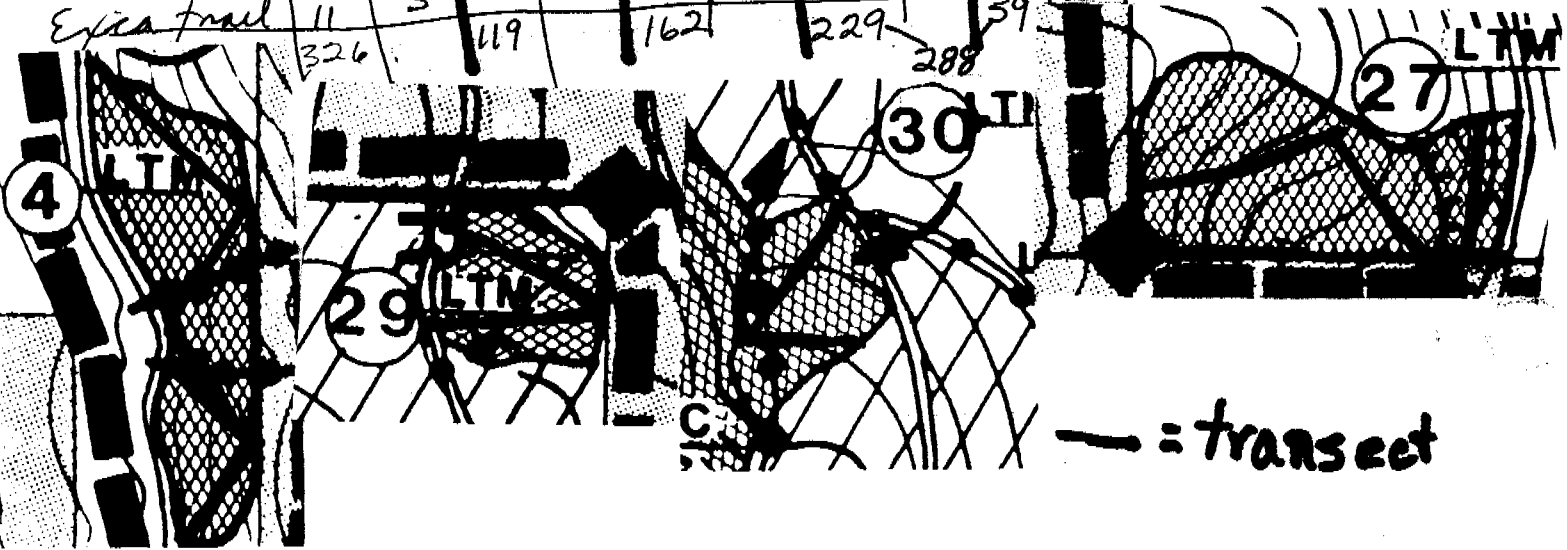
|||||

(50) Displaced

|||||

119 Comments: Unit tractor logged + tractor piled. machine over mount
of ground.

	Unit 4		Unit 29		Unit 30		Unit 27				
	No.	%	No.	%	No.	%	Upper 85%		Lower 15%		
	No.	%	No.	%	No.	%	No.	%	No.	%	
Heavy	14	4	30	25	12	7	30	13	1	2	11
Light	45	14	75	63	104	64	183	80	38	64	77
Undist.	224	69	14	12	46	29	16	7	20	34	13
Diapl.	(33)	(10)	(50)	(42)	(18)	(11)	(163)	45	(9)	(15)	39
SMZ	32	10									
Erica trail	11	3									
	326		119		162		229		59		

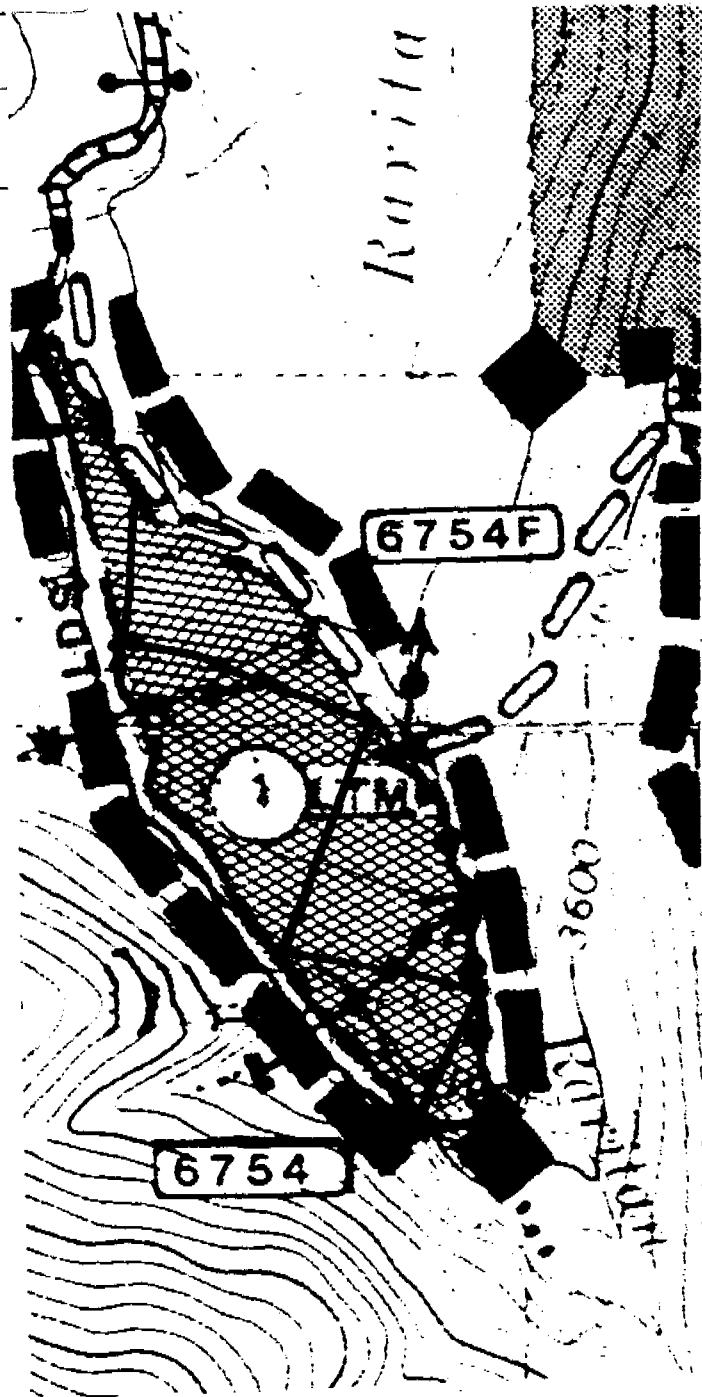
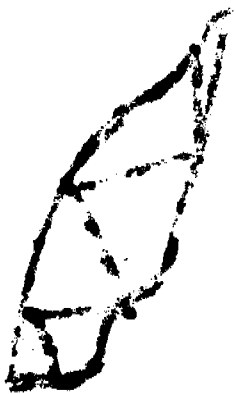


East Paritan

Unit 1

Slash in unit
fireline, doger pits,
hand felled, log skidded

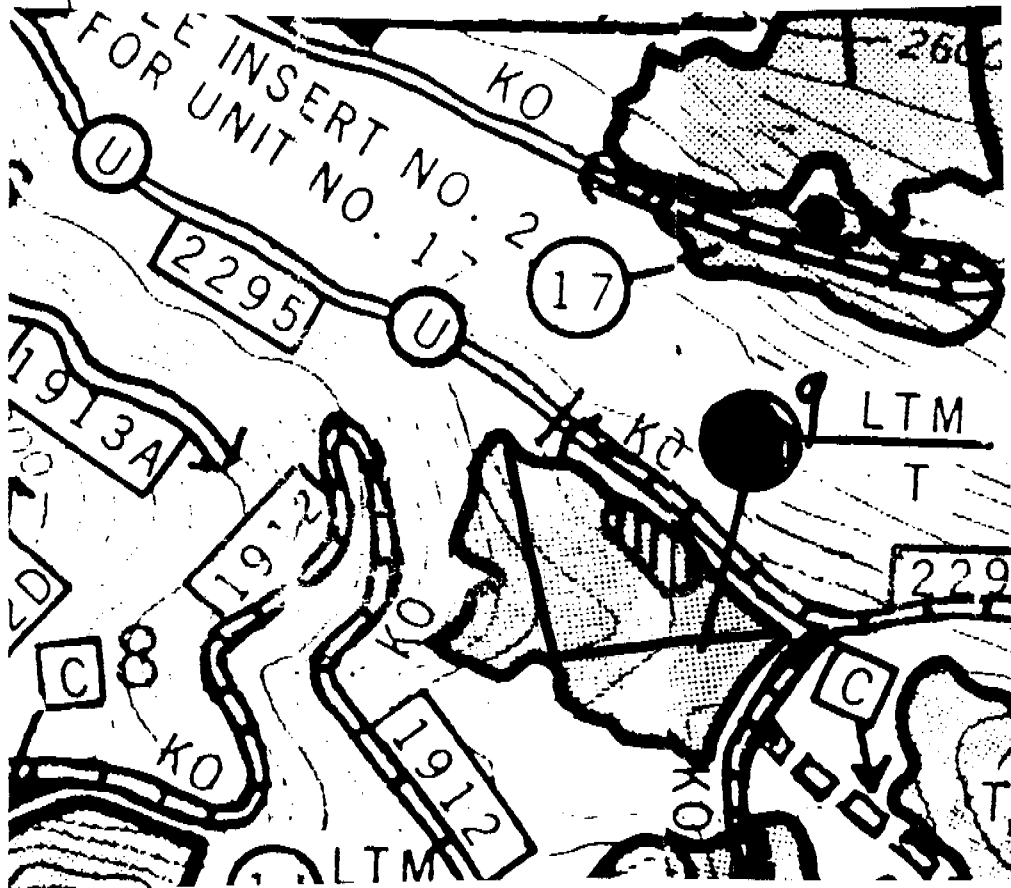
	No.	%
Heavy	96	25
Light	128	33
Unhit	163	42
Displ	(111)	(29)
Escav. Trail	(42)	(11)
	387	



- #1 Or 5th transect in upper 1/2 of unit
 - #2 Upper middle of lower 1/2 of unit
 - #3 Taken in the North end of unit
- Beaver Peak Resell
Unit 9

	No.	
Heavy	71	24
Light	190	65
Undist.	33	11
Displ.	(68)	(23)
	294	

— = transect



D-7

10/21/1992
Cabinet - Dry Gulch Dixie
Unit 14
73007069

KOOTENAI NATIONAL FOREST
SOIL IMPACT DATA FORM

Tractor-logged
tree-length

DATE 10-21-92

OBSERVER Jim Moeller

DISTRICT D-7

SALE Dry Gulch Dixie UNIT # 14

730-09-069 9A

sawwater line
no piling
some clipped
drag chain

23 COMPACTION HEAVY ::||

82 COMPACTION LIGHT :

41 UNDISTURBED

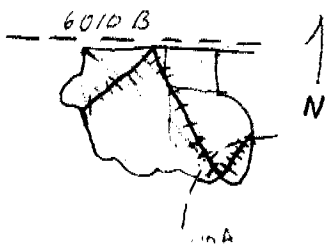
DISPLACED :

EXCAVATED SKID TRAIL ::

SMZ

COMMENTS Bottom of unit 40 yds away from running stream. The NW corner of unit is a steep slope. The lower portion of the unit appears to have been cabled. The NE side also seems to have been cabled. The fire line has water bar on it (good job).

SHAPE OF UNIT AND PATTERN OF WALK THROUGH.



3rd Source

- #1 Along Bottom of unit near fire line
- #2 Horse 500 ft on Sand trail

Dry Gulch Dixie
Unit 14

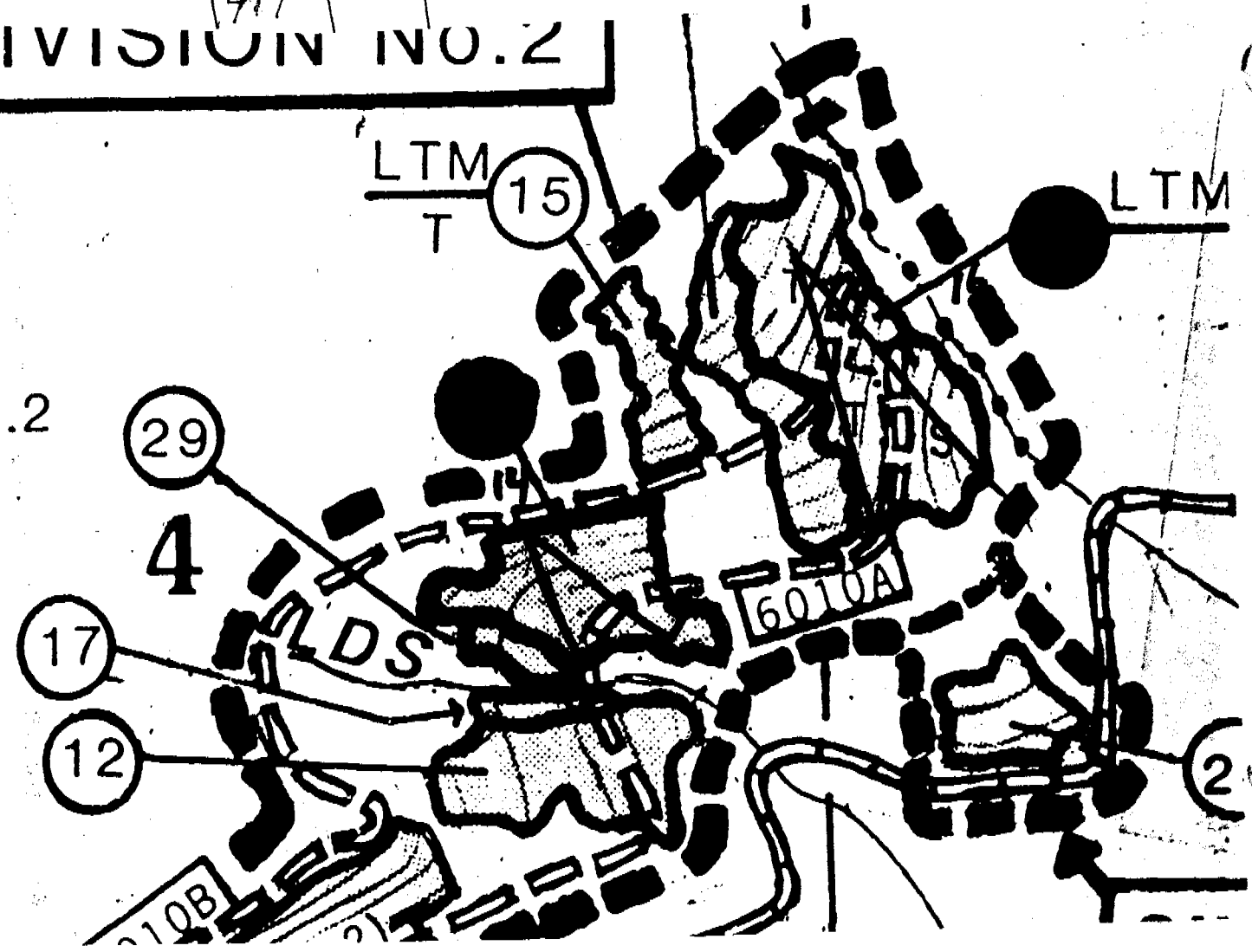
	#1 Cable		#2 Tractor			
	No.	%	No.	%		
Heavy	4	3	23	15	27	10
Light	13	10	82	55	95	35
Undist.	108	87	45	27	153	56
					275	
Displ	(3)	(2)	(10)	(7)		
			4	3		
Ejec. trail	125		150			

- #1 SW corner of unit on Excavated trail.
- #2 At the bank of Road (6010A) that runs between Unit
- #3 1/4 way up unit on Skid Trail

Dry Gulch Dipole
Unit 16

	No.	%
Heavy	64	15
Light	241	58
Undist.	96	23
Displ	(73)	(17)
Epoa Shid trail	18	4
	419	

DIVISION NO. 2



51202013
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

512-2-13

DATE: July 21, 1992
SERV: J. K. Decker
TRACT: Libby
E.A.: Bobtail Bull
Unit #: 10 Acres: 13
T: 250
Slope: 49%
Location:
CUTTING METHOD: Skidder
SKIDDING METHOD: NTS
If tractor: dispersed dedicated
HAZARD TREATMENT: Controlled pile 12 burn - 10/93
SILVICULTURAL TRMT: Supp Best SP Mech Plant
OPERATION PERIOD: 6/1/92
Aspect: ER
Elevation: 2500'

COMPACTON (Heavy) _____

Walk-through

COMPACTON (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

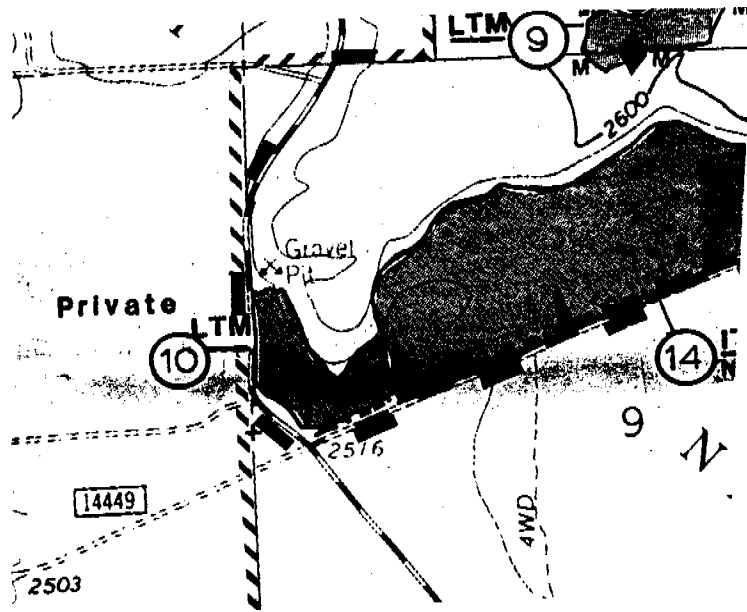
SMZ/ROCK _____

COMMENTS (Include soil, geology, organic debris, other pertinent info)

*This unit was part of a site prep review.
Unit looks good. There is enough mineral soil for natural.
Here will be some interplanting to provide species diversity.*

SHAPE OF UNIT AND PATTERN OF TRANSECT _____

COMPACTON (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.
COMPACTON (Light) - Any other area not included in heavy COMPACTON 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.



KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

5 13-03-60

DATE: July 21, 1992 CUTTING METHOD: Timber chipper
 OPERATOR: K. Libby SKIDDING METHOD: Grape
 DISTRICT: Libby If tractor: dispersed dedicated
 LEGAL: Banfield HAZARD TREATMENT: Preserve Pile & Burn OR - 11/92
 UNIT # 12 Acres 8 SILVICULTURAL TRMT: Supersil / SP Tech / PLOT
 LOT: 662 OPERATION PERIOD: 8/1991 2029 p/2000
 LOCATION: 177 Aspect: SE
 Elevation: 5200'

COMPACTION (Heavy) _____

Walk-through

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ/ROCK _____

COMMENTS (Include soil, geology, organic debris, other pertinent info)

This unit was part of a site prep review from the stand point of potential soil exposure for natural region. Unit looked good. If the site were to be planted, there would be much exposed soil. There was very little sniping + displacement. Much better than Unit 18.

SHAPE OF UNIT AND PATTERN OF TRANSECT _____

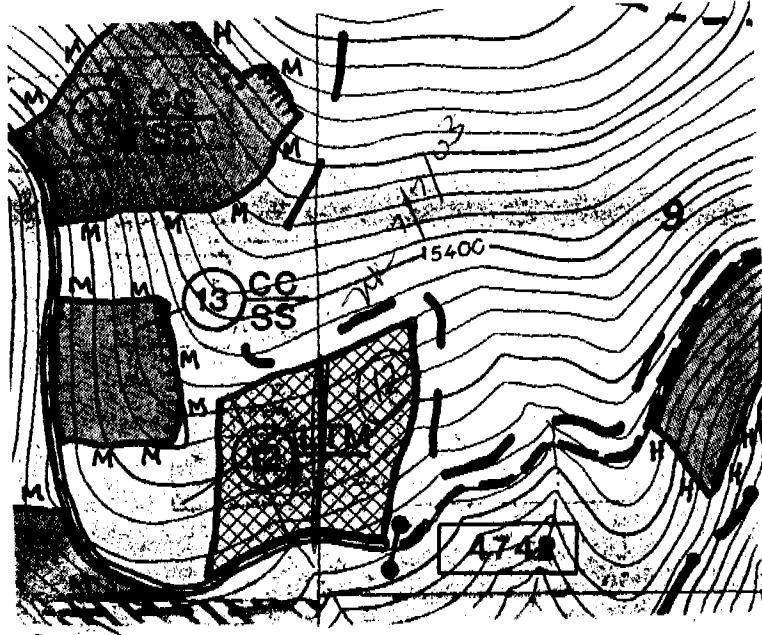
COMPACTION (Heavy) - Any place where future vegetative growth will be significantly impacted, i.e., skid trails (both heavily and lightly used depending on amount of compaction related to soil moisture), landings, and other impacted areas.

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.



513-Q-B2

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE July 21, 1992 CUTTING METHOD chipper/hand
 OPERATOR Rudman SKIDDING METHOD RTS
 DISTRICT Libby If tractor: dispersed dedicated
 LEGAL S.A. Banfield HAZARD TREATMENT Grapple piled ¹⁹² burned-11/92 BB-92
 Unit # 18 Acres 20 SILVICULTURAL TRMT CC/SP mark + PC burn / Plant
 I.T. 621 OPERATION PERIOD 5/1991
 Slope 27% Aspect SE
 Location Elevation 4800'

COMPACTION (Heavy) _____

Walk-through

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

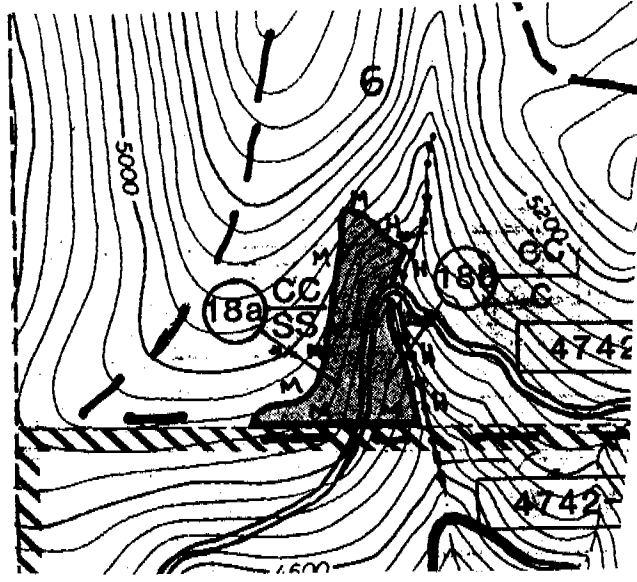
SMZ/ROCK _____

COMMENTS (Include soil, geology, organic debris, other pertinent info)

This unit was part of a site prep review. There was too much logging and compaction, especially w/ using a grapple. Grapple was used too much like a dozer.

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.



52802050

KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

Stand ID _____

DATE July 21, 1992

SERV Libby

TRACT Snowshoe Road Bugs

Unit # 2 Acres 6.2

HT 591

op % 37%

ocation _____

COMPACTION (Heavy) _____

CUTTING METHOD _____

SKIDDING METHOD Accept the whole tree

If tractor: dispersed _____ dedicated _____

HAZARD TREATMENT Burn DP-10/1991

SILVICULTURAL TRMT CC/Res/SP Mech/Plant

OPERATION PERIOD 3/1990

Aspect | LR

Elevation | 2600

COMPACTION (Light) Walk-through

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

SMZ/ROCK _____

COMMENTS (Include soil, geology, organic debris, other pertinent info)

This was part of a site prep review. The contract called for 40-45% mineral soil as part of the down piling. According to the specifications ~ 1/3 of the unit too light, 1/3 too heavy, and 1/3 about right. With planting scheduled the prescription for 40-45% was too high. The light area was probably about right. CWD was fairly light.

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.

528.2-124

32802124
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

DATE: July 21, 1992
 OPERATOR: J. Reimann
 DISTRICT: Libby
 LOCATION: A. Snowshoe Road Bugs
 UNIT #: 45 Acres
 TREATMENT: A 591
 SLOPE: 03%
 LOCATION: *Lower*
 CUTTING METHOD: *Chippers (yellow buncher)*
 SKIDDING METHOD: *RTS*
 If tractor: dispersed dedicated
 HAZARD TREATMENT: *Burn Landings - 10/1991*
 SILVICULTURAL TRMT: *ST/SPOK/Net*
 OPERATION PERIOD: *7/1990*
 Aspect 1: *LR*
 Elevation 1: *2600'*

COMPACTION (Heavy)
 COMPACTION (Light) *Walk-Through*

UNDISTURBED

DISPLACED

EXCAVATED SKID TRAIL

SMZ/ROCK

COMMENTS (Include soil, geology, organic debris, other pertinent info)

*This was part of a site prep review.
 This unit was scheduled for natural regen. It was felt that
 amount of scarification was light for natural regen. Would be
 just right if the unit were to be planted & supplemented w/
 natural.*

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.

53201026
KOOTENAI NATIONAL FOREST
SOIL DISTURBANCE MONITORING FORM

53201-26

DATE: July 21, 1992
SERV: Kulesen
TRACT: Libby
E.A.: Hoodoo
Unit #: 65 Acres: 16
T: 571
Op: 15%
Location:
CUTTING METHOD: skippis
SKIDDING METHOD: RTS
If tractor: dispersed _____ dedicated _____
HAZARD TREATMENT: Cripple pulpit - burned 10/93
SILVICULTURAL TRMT: SW/Res/50%ch/Plant
OPERATION PERIOD: 3/1990
Aspect: N
Elevation: 3200'

COMPACTION (Heavy) _____

Walk-through

COMPACTION (Light) _____

UNDISTURBED _____

DISPLACED _____

EXCAVATED SKID TRAIL _____

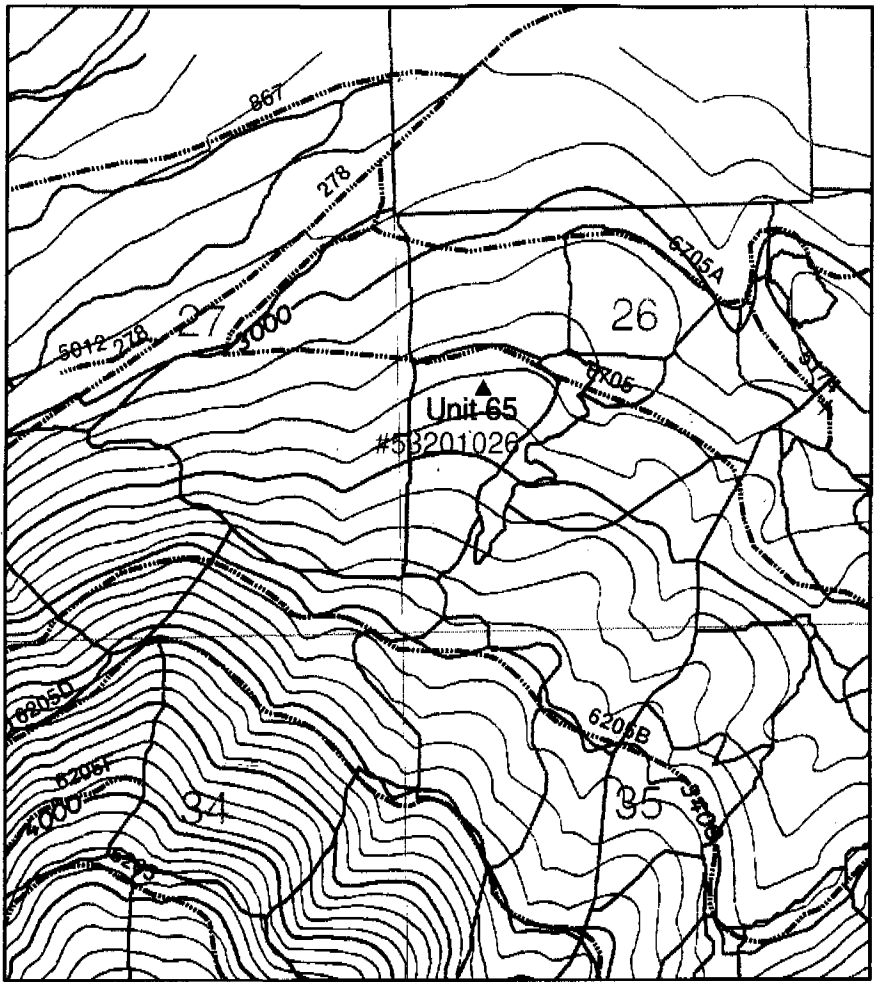
SMZ/ROCK _____

COMMENTS (Include soil, geology, organic debris, other pertinent info)

*This was part of a site prep review. Cripple
This unit should never have been piled. Operations occurred
when the soil was too wet. It is a site that probably never
dries below 20% which is greater than the 18% recommended
for machinery operations. Obviously, this unit should have
been broadcast burned. Since this unit was scheduled for
planting there definitely no need for 50% mineral soil.*

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.



1/8/04 nk
map correction