Workman Creek

Client - USFS

DATE - March 31, 2008

Personnel - R. Logsdon - Weston

Laura Sommers EDI

Scott Johnson - Johnson Env

Weather - Sunny cool 38 onsite

0630 left Globe for site

0750 onsite conducted walk around

0800 Scott J. onsite

0800-900 Setup Equipment

Trouble with Trimble Unit

Will need coords from USFS

930 Tailgate safety meeting

940 Setup on CrCG-5

Refusal at 5 feet BGS

950 USFS personnel onsite

945 0-2' 29.767

~~1000~~ 950 2-4' 29.950

955 4-5' 28.640

Top of Hole 44.928 before boring

53.887 After boring

→ NR Move 3 decimals for conversion

3-31-08

1000 - Began CrCG-4

Top of 182.142

1005 0-2 42.006

1010 2-4 24.243

1015 4-6 23.597

Top of Hole 220.087 After Boring

1026 - Began CrCG-3

Top of Hole 14.892 Before

1030 0-2 14.642 low recovery 8"

~~1040~~ 1035 2-4 19.223

1040 4-6 19.616

Top of Hole 17.383 After

1045 - Collecting Dupe from CrCG-4

1045 0-2' BGS

0-2' CrCG-4

Top of Hole 181.882 Before

Top of Hole 187.275 After

1050 - CrCG-2 33.933 - Before Top of hole

1055 0-2 — 18.531

1100 2-4 — 27.060

1105 4-6 — 21.488

Top of Hole 32.688 After

RL

000712

3-31-08

1116 - Begin CiCG-1

Top of Hole	32,927	Before
0-2 -1120	17,090	
2-4 -1125	18,849	
4-6 -1130	19,955	
Top of Hole	36,390	after

1130 Completed Creekside Campground
Processed samples into quart
Ziploc baggies and preserved
on ice

1215 Lunch Break

1240 Note Lucky Stop / Lost Dog
Not able to drive across
the creek will return
with shovels to collect
samples by hand.

Hope Mine Hot Spot 1

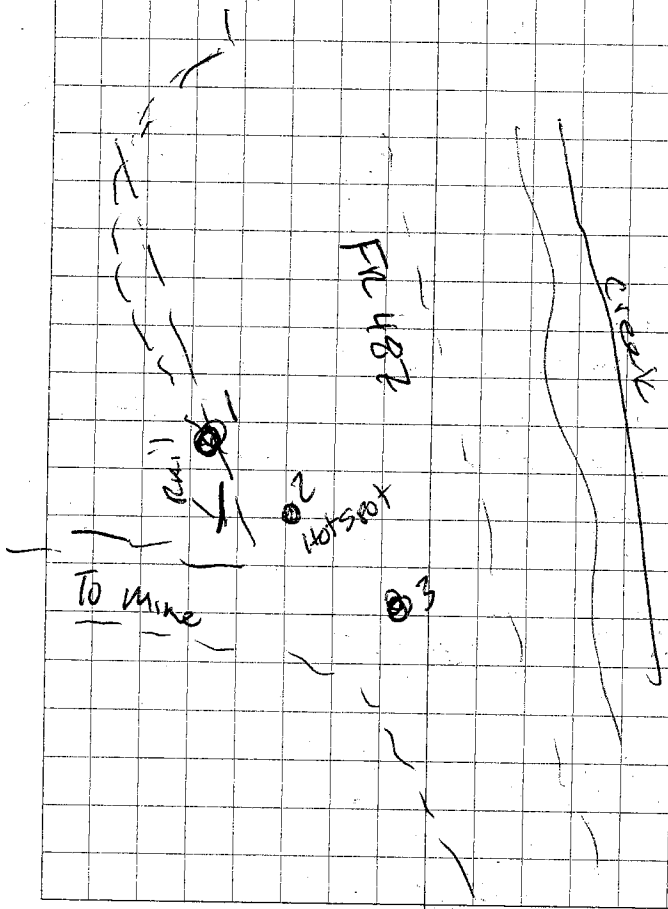
1320	Top	234,344	milliRems mR
1325	0-2'	102,471	Dk Brn SM
1330	2-4	100,196	Blck clayey Silt (SM/MC)
1335	4-6	No Sample Refusal @ 5'	
	4-5	102,577	5' sample

→ (SM) Red Brn, Silty Sand with Gravel
Granite Bedrock at Bottom or
at least a boulder

3-31-08

Hope Mine Samples
1320 - Setup next to old rail
near slope will rig on rope

Hope Mine Hotspot



3-31-08

1340 Horse Mine Hot Spot #2

True Hot Spot

Top of Hole 66,172 Before

1345	0-2	99,231	Grey, F-C Sand & Gravel, Silt	GM
1350	2-4	94,231	Red-Brn, f-c, s & Gravel	GP
1355	4-6	94,115	Dk Brn, vf-c, Sand with Gravel	SM

Top Hole After 72,571

- weathered Rock angular up to 1" Diam

1410 Horse Mine Hot Spot #3

Top Hole 360,542

1415	0-2	98,979	Tan-Brn, Sandy Silt, Trace Clay	ML
1420	2-4	96,420	Brn, Sandy Silt with Gravel Plastic	GM/ML
1425	4-6	97,196	Dk Brn, Sandy Silt with Gravel moist (ML)	

Top 392,014 After

1425 Horse Mine Complete

* See sample notes with logs

* Readings µR more 3 decimals

3-31-08

1430 - Arrived at Cascade CG
setting up points

1450 Set Up on CrCG-5

Top of Hole - 62,535

1500	0-2	- 33,145 -	
1517	0-2	Dupe - 35,908 -	* Log on separate page
1505	2-4	33,649 -	
1510	4-6	36,907 -	

Top of Hole 64,393 After

1520 - CrCG-4

Top 36,324 Log on separate page

1520	0-2	32,999
1505	2-4	—— Refusal @ 3' after 2 attempts

18,137 Top of hole After

1530 - CrCG-3

Top 48,129

1535	0-2	33,136	* Log on separate page
1540	2-4	34,006	
1545	4-6	34,378	

Bottom - 40,930

3-31-08

1600 Collected Equipment Rinse
1 gal <2 pH HNO3 - Gross Gamma
1 500 mL <2 pH HNO3 - Total Metals

1625
1625 RJ CaCG - 1
Top 100,502
0-2 1630 35,180 Log on separate page
2-4 1635 34,423
4-6 1640 33,026
Top After

Order

1610 CaCG-2
Top 29,866 Before
0-2 1610 34,661 Log on separate page
2-4 1615 33,685
4-6 1620 32,481
Top 31,403 After

1640 Ann Fisher Karen Hunter offsite

3-31-08

1720 - Scott Johnson offsite

1730 - Cleanup and Prepping to leave site

1740 Offsite

RJ 3-31-08

DATE April 1, 2008
USFS Workman Creek Day 2
Personnel R. Logsdon - Weston
L. Summers - EDI
Weather Clear Warm 65° → 75° F. slight Breeze
Objective Finish soil samples and begin
Gamma Survey with GPS
GPS Not working on First Day

800 Laura from EDI trouble shooting
GPS. I drove to site. Notified
USFS that we would be
later
1000 ONSITE WITHOUT LAURA, she
is working on the GPS
1050 Ann Fisher onsite went over
water sampling
1115 Laura from EDI onsite
GPS is working.
Will Continue sampling at LD/LS
1250 Collected Sample at LOST DOG
Lucky Strip Road - next to drainage (southside)
0-6" w. fl shovel
Dark Brown, f-m sand silt
large gravel / cobbles angular
145809 Surface

4-1-08

1300 - Collected 2nd sample at (15' southeast of 1st sample)
LS/LD-2-0-6" Depth
Orange Brown, moist fined sand
angular gravel and cobbles
hard to dig.
640570 hole.
245 above hole 12'

*No more samples at this location
per Ann Fisher w/ USFS.
Area survey with Gamma Ray - log with GPS Trimble

1332 - Hope Mine Hot Spot to conduct
Gamma Survey and collect
Waste Rock Samples

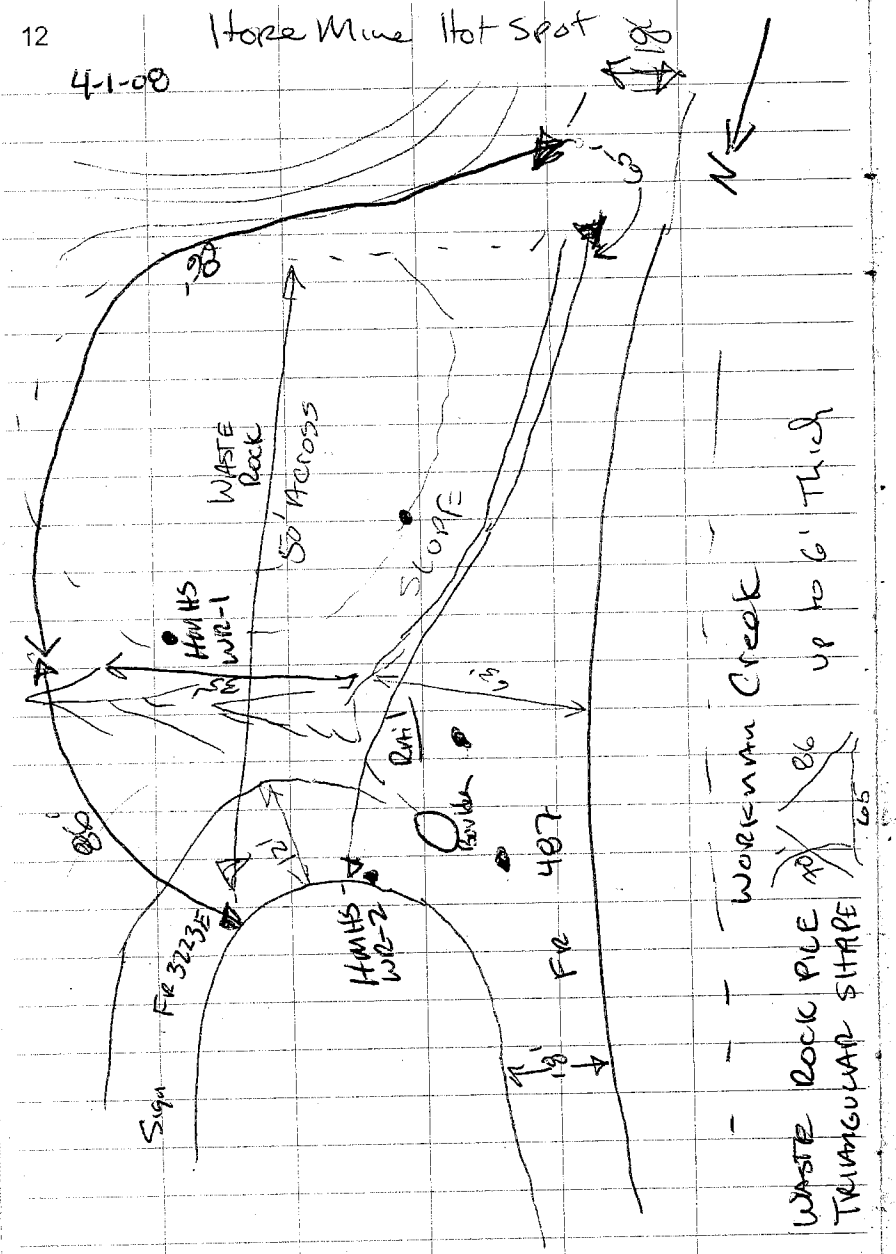
1430 - Collected Waste Rock sample
HMHS-WR-1 - 48641 NR
Dk Brn sand & gravel moist

1440 HMHS-WR-2 664190 NR
Red Brn - Orange sand gravel dry-moist

000716

Horse Mine Hot Spot

4-1-08



4-1-08

1630 - Completed surveys at Creekside, Horse Mine Hotspot, and Cascade CampGround

Touring water sample locations with Ann Fisher. Before leaving for Globe

Just ABOVE Elks Camp by Trail FR 3222 To LITTLE JOE Workman

- Road is marked and easy to find.

1700 - Ann Fisher drove us to the Suckerite mine in-search area. Also, showed us the section of workman Creek above Rose Creek to sample

1730 - Left site

4-1-08

USFS - WORKMAN Creek

DATE April 2, 2008

Personnel R. LOGSDON - WESTON
L. Summers - EPI

Objective WATER sampling on WC

Weather Sunny cool 55°F

810	Arrived at site drove to gate below the falls will hike to the weir for 1st sample
910	Arrived at WEIR
930	Walking back to car
1030	Below Falls CG 505497E 3742081
1143	AT SW-5W upstream from Cascade CG and SW-13W Jon Adit
1230	Surveyed Jon Adit no waste rock piles here Adit 7'ht x 8' wide
1330	Sampling SW-6W downstream from Cascade CG -
1430	Collecting samples at SW-7W adjacent to Hope mine Road South
1515	Walked to WC noted confluence of Coldwater Creek spring Drain Sample collected upstream from Confluence 3744022N/504425E
	moved upstream 3744008N 504440E sample SW-8W

4-2-08 WATER SAMPLE PARAMETERS

Sample ID	Location	Time	pH	Temp °C	Cond NS	TDS ppm
SW-3W	ABOVE WEIR	915	7.14	5.3	203	99
SW-4W	Below FALLS CG	1100	7.51	7.6	170	84
SW-5W	505046 3743188	1150	7.93	10.1	177	89
SW-13W	Jon Adit Pool	1250	7.42	15.5	147	79
* SW-13W-D	505021 373240	1255	↓	↓	↓	↓
SW-6W	504867 3743312	1345	7.73	10.6	180	90
SW-7W	504502 3743866	1430	7.34	10.7	185	92
Confluence Cold Water SW-8W	*3744022N 504425E	1515	7.35	10.4	182	94
SW-9W	WP 45	1600	7.38	9.6	188	94
SW-10W	503687 3744635	1630	7.30	9.7 10.1	192	98
SW-11W	502996 3745101	1715	7.30	9.1	200	100
SW-12W	OUT	1800	7.56	10.8	228	114

000718

4-2-08

1815 leaving site after water sampling in streams

* Last sample at UC above Rose Creek (SW-12W)

* Refer to Waypoint list in back of book for handheld GPS locations

- Return with EDI collected Trimble GPS coords and Gamma Readings at Each location

*Drove samples to office

4-2-08

DATE: April 3, 2008

Personnel: R. LOGSDON - WESTON
L. Summers - EDI

Objective: WASTE Rock Sampling and Radon

Weather: Sunny cool 65°F

WASTE ROCK

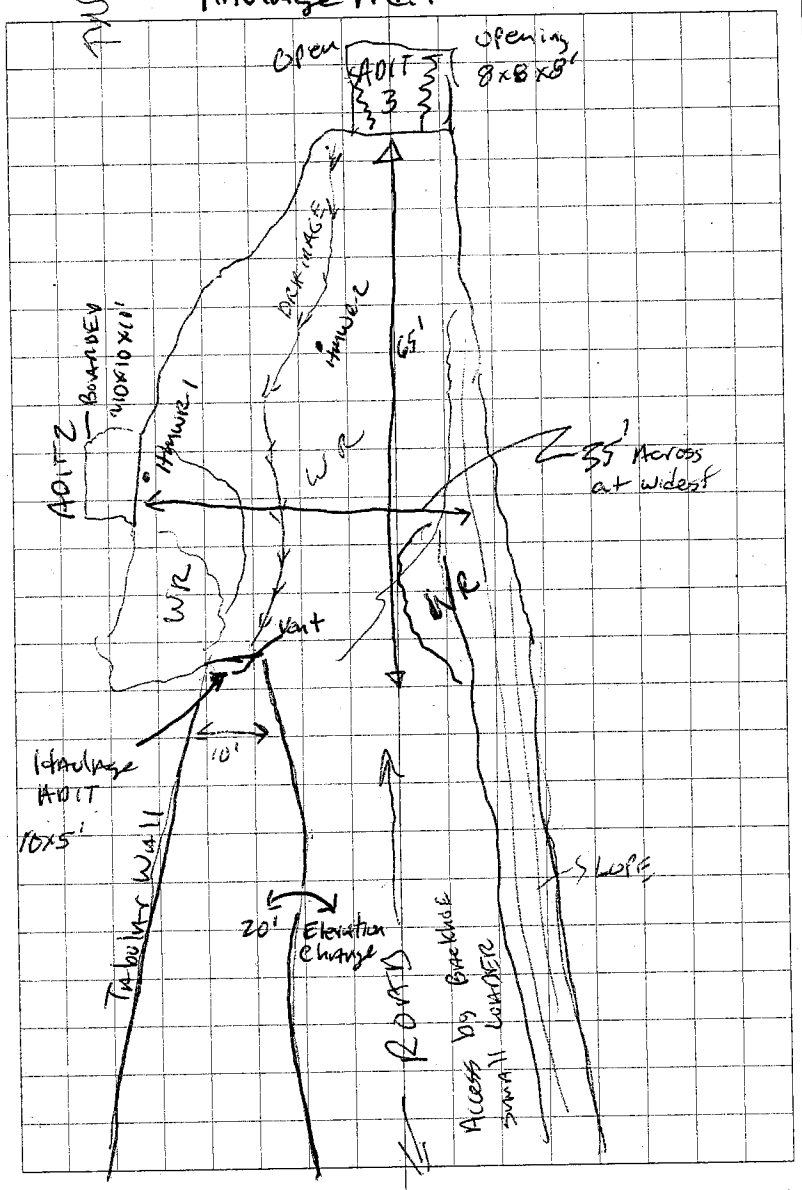
Sample ID	TIME	DESCRIPTION	NR
HM-WR-1	1130	yellow fine gravel; dry powder Rock flour	127.95
HM-WR-2	1140	Blch clay silt gravel moist	120.25
HM-WR-3	1220	DK Brn, silty gravelly sand moist	165
HM-WR-4	1230	Yellow fine silt sand Rock flour Dry	120.77
HM-WR-5 ADIT 1	1300	Brn sand silt gravel dry	96.63
HM-WR-6 SR-OP	1250	DK Brn, Rock & organic soil Dry Hard to get enough fines	95.55
HM-WR-7	1430	Yellow Rock Tallus Dry	200.10
HM-WR-8	1440	Yellow sand silt rock flour hot spot Dry	220.35

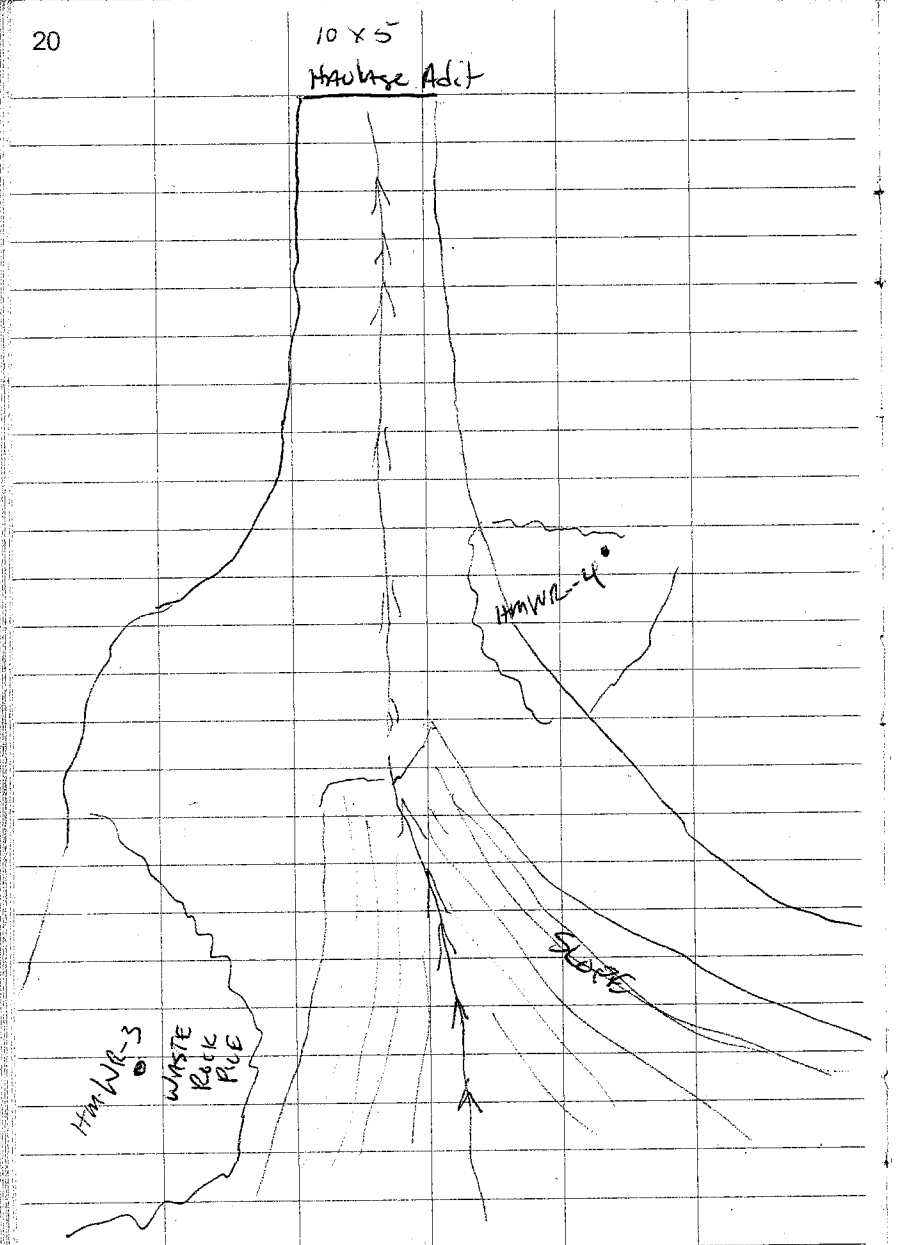
* ~~9873~~
10735 Background NR

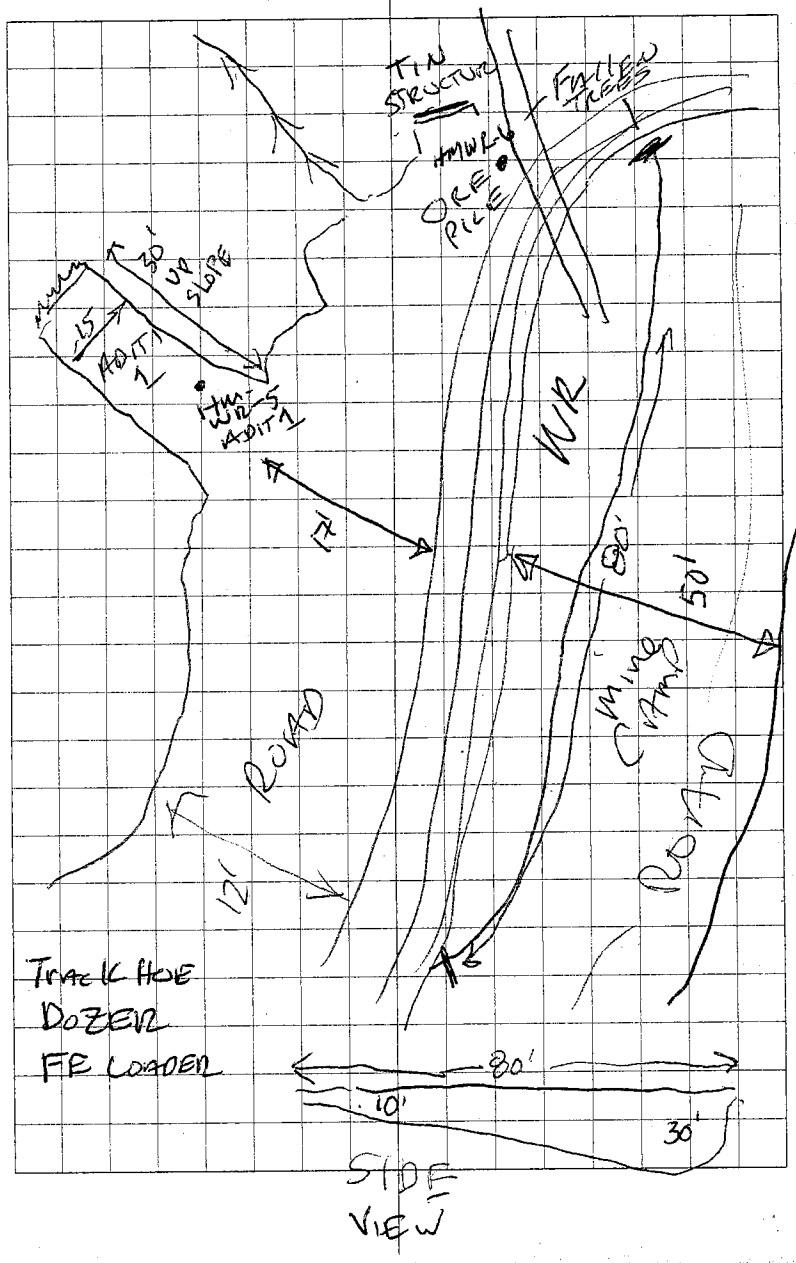
4-3-08 – Recon WayPoints

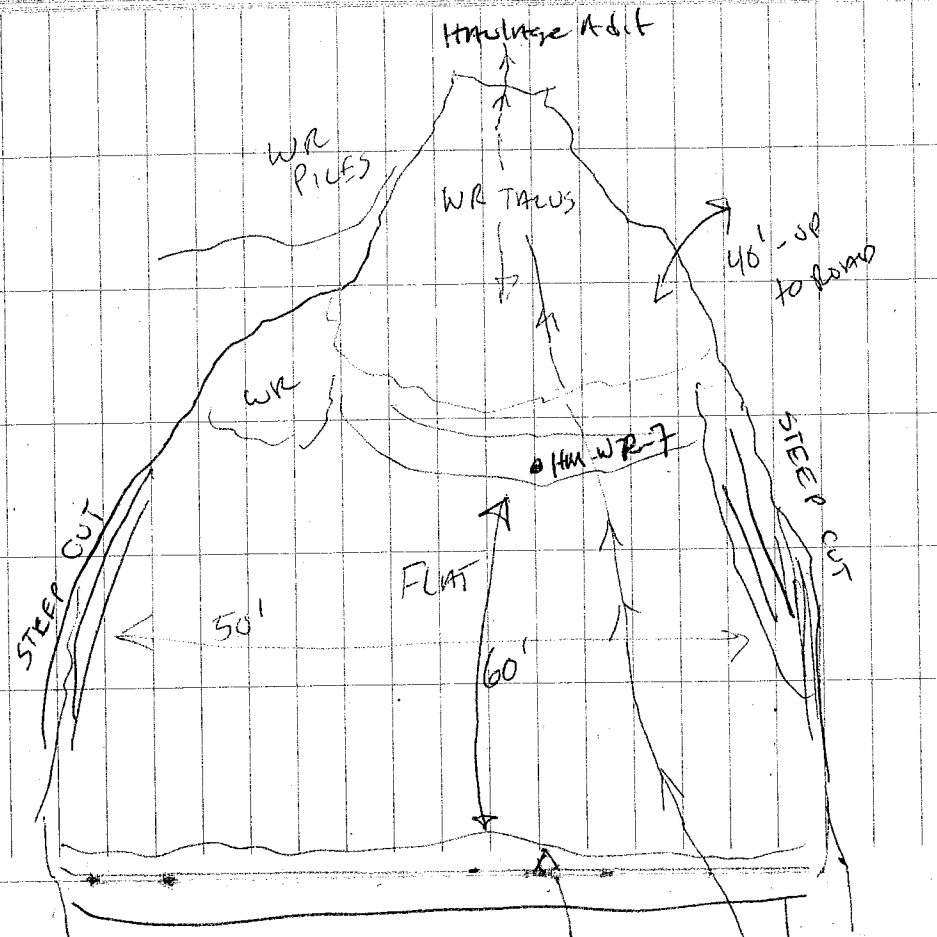
Way Point	Photo #	Description
049	2278	Workings above Mine Camp; Trail from HMAS
050	2279	ADIT WITH TIN SHEETS OVER TOP
	2280	
051	2281	Mine Camp Area HM
052	2282-83	ADIT #3 HM (8'x8'x8')
053		ADIT #2 HM (10'x10'x10')
054		HM-WR-1
055		HM-WR-2
56-58		Drainage from Top of Haulage to ADIT 3
59-61		ADIT OPENING TO ROAD
62		HM-WR-4
63		HMWR-3
64-68		WR-1 PILE OUTLINE
69	(2)	Adit 4 (30-40 ABOVE ROAD) 4x5'
70		~~ADIT~~ HM-WR-6 - STR-OP
71		ADIT 1 HMWR-5 "
72		FR 3223 E ~~[illegible]~~ NORTH TO Hope M.
73		HM-WR-7 BASE of WR from Haulage
74-91		Perimeter of upper pile Below Haulage
92-		HM-WR-8 Lower pile above drainage
		↳ Hotspot fire yellow
93-94		FR 3222 Start Grown M

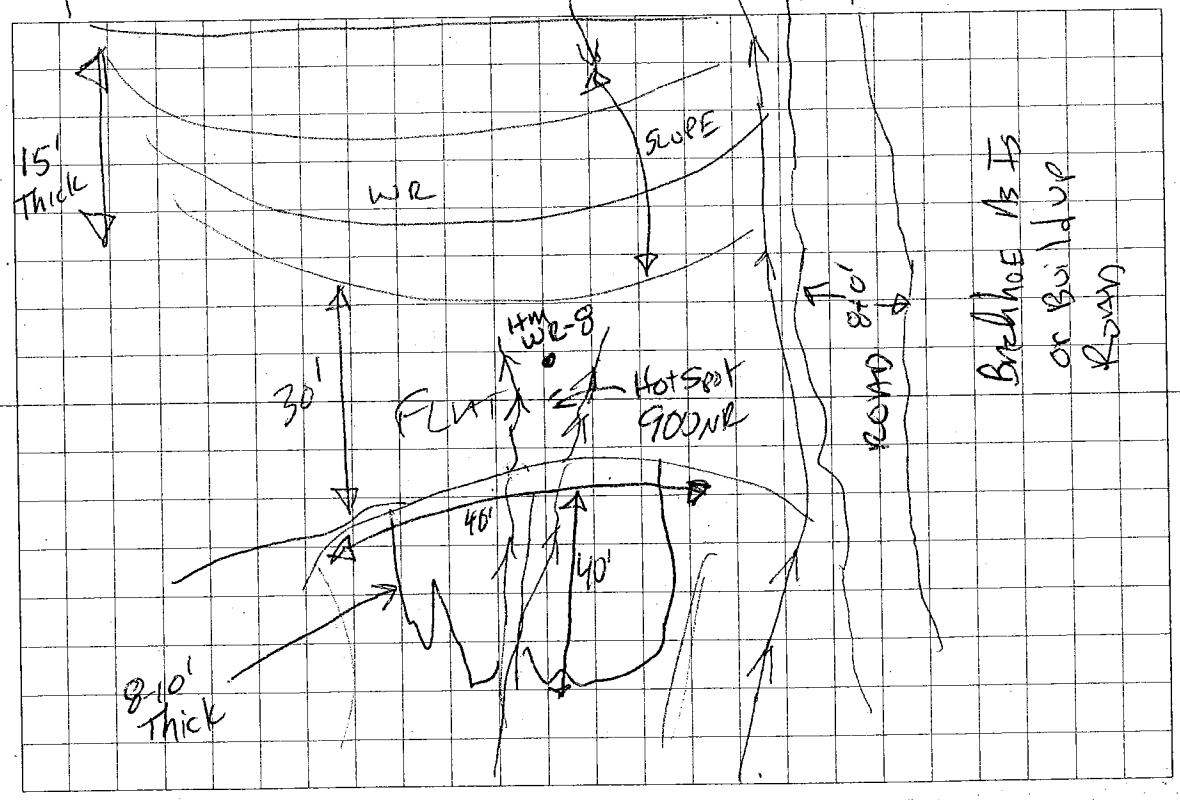
Haulage Adit




10 x 5
Haulage Adit
HMWR-4
SLOPE
HMWR-3
WASTE ROCK PILE


TIN STRUCTURE
FALLEN TREES
HMWR-6
ORE PILE
30' UP SLOPE
15'
ADIT 1
HMWR-5 ADIT 1
17'
WR
80'
50'
MINING CAMP
ROAD
ROAD
12'
TRACK HOE
DOZER
FE LOADER
80'
10'
30'
SIDE VIEW


Haulage Adit
WR PILES
WR TALUS
40' - UP TO ROAD
WR
HM WR-7
STEEP CUT
STEEP CUT
FLAT
50'
60'


15' Thick
WR
SLOPE
30'
FLAT
HM WR-8
Hot Spot 900NR
46'
40'
8-40' Thick
40' ROAD
Breakage Is Is or Build up Ramp

1530 Gamma Survey FR 3222

WayPt	Description	
95-96	Turn toward Adit #3	NoreMine
97	Workman #3 open	
98	Above #3 OPEN	
99-101	Trail	
105	Workman #3 Adit @ ~7'x7'	
106	small working	
107-110	Crumb trail	
111-112	Drainage Creek flowing	
113	Complete Road FR 3222	

1830 LeftSITE

DATE April 4, 2008

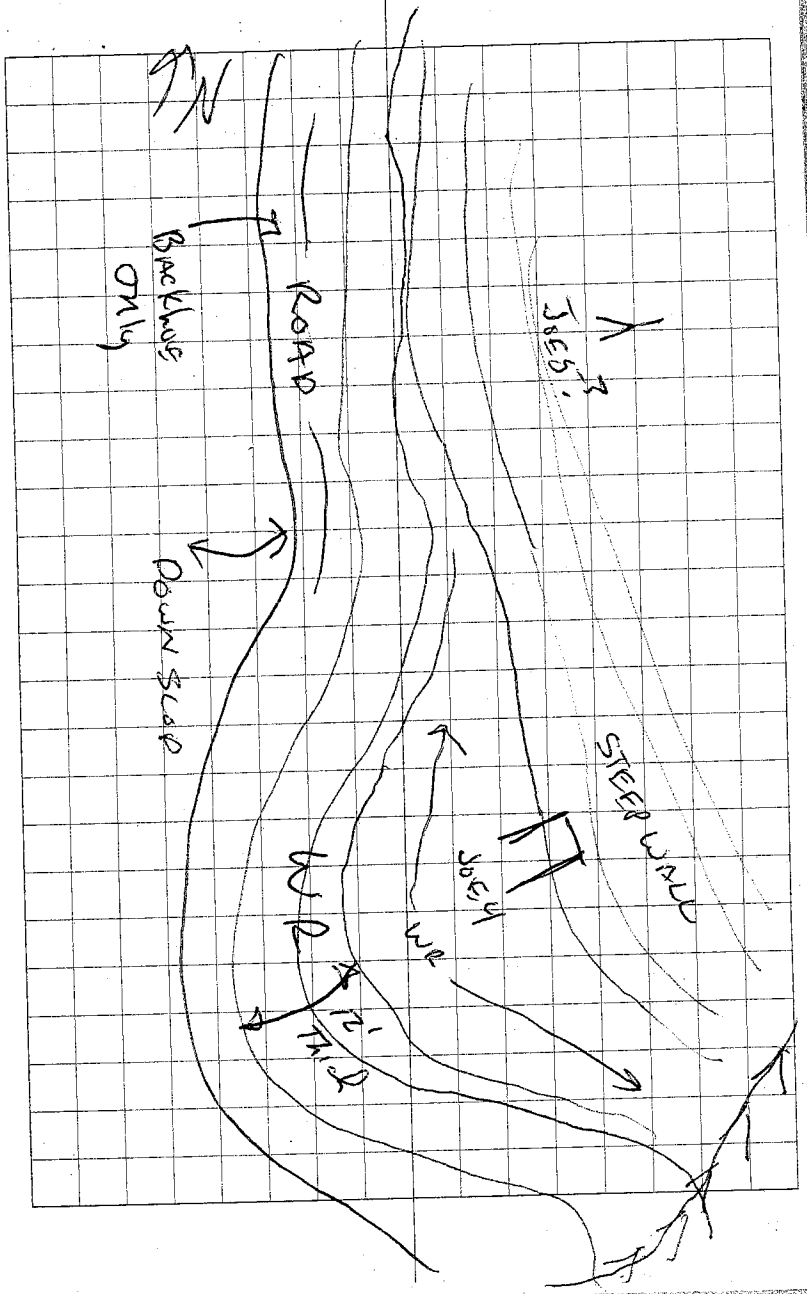
Personnel R. LUGSDEN WESTON
L. Summers EDI

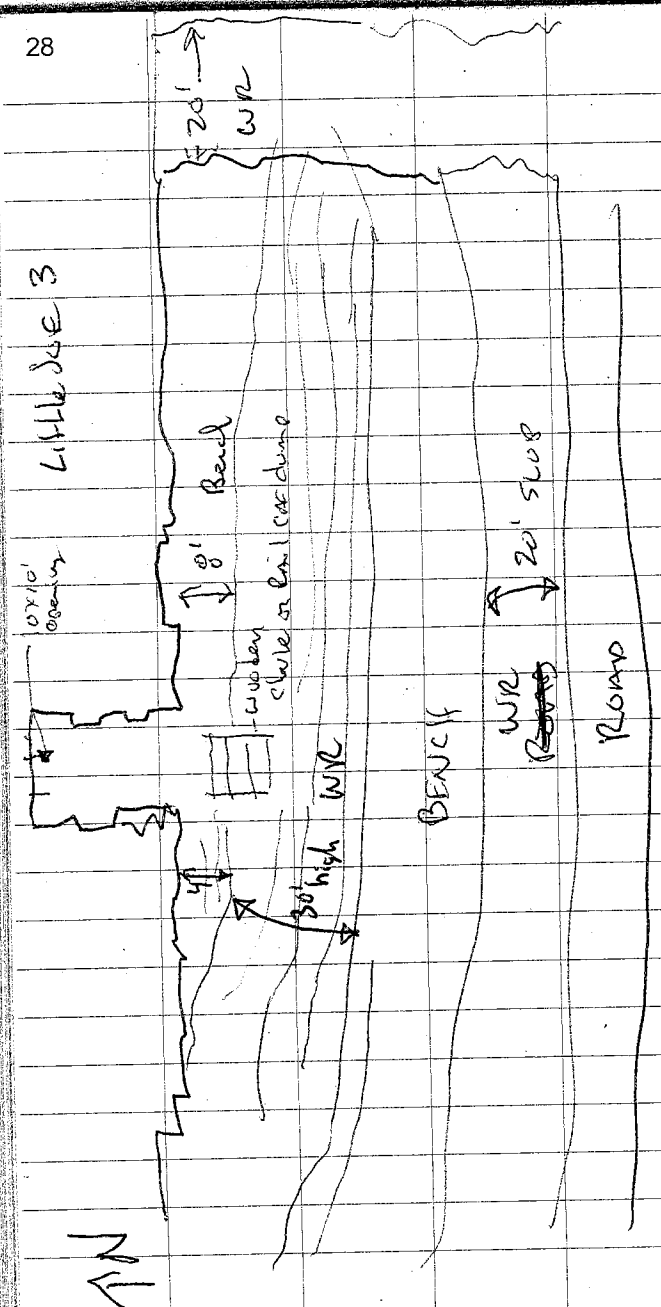
OBJECTIVE Gamma Survey on Trails

0700 Left Globe

0800 onSITE - Drove to Honey Creek Divide to start Hike back to Below Elks Club

Way Pt	Photo	Description
114		Honey Creek Divide Start
116	2330	Little Joe 4 boarded up (fallen)
	198 NR	~5'x5' opening (Stake Adit #1)
117	2331	Joe 5? Too Steep up slope
	2332	Pretty sure. There is a blue flag up there
118-131	2335	Little Joe 4 WR Pile
132		Drainage & Stake "CMG-P2"
133-147	2336-39	Potential Waste Rock Pile
		Above Road Past Drainage
		going to L. Joe 3-2-1
148	2340-41	WASTE Rock 60' wide up slope
	NR >100	20 feet
149	NR >400	Little Joe 3 10'x10' opening
	2342-56	Rock cut 10-12' by 40' high up slope
		Front wall to opening ~35'
150-154		Bench Top to Easter WR Pile
155-161		East WR Pile west to Wooden Structure
162-169		Base of WR along road to drainage





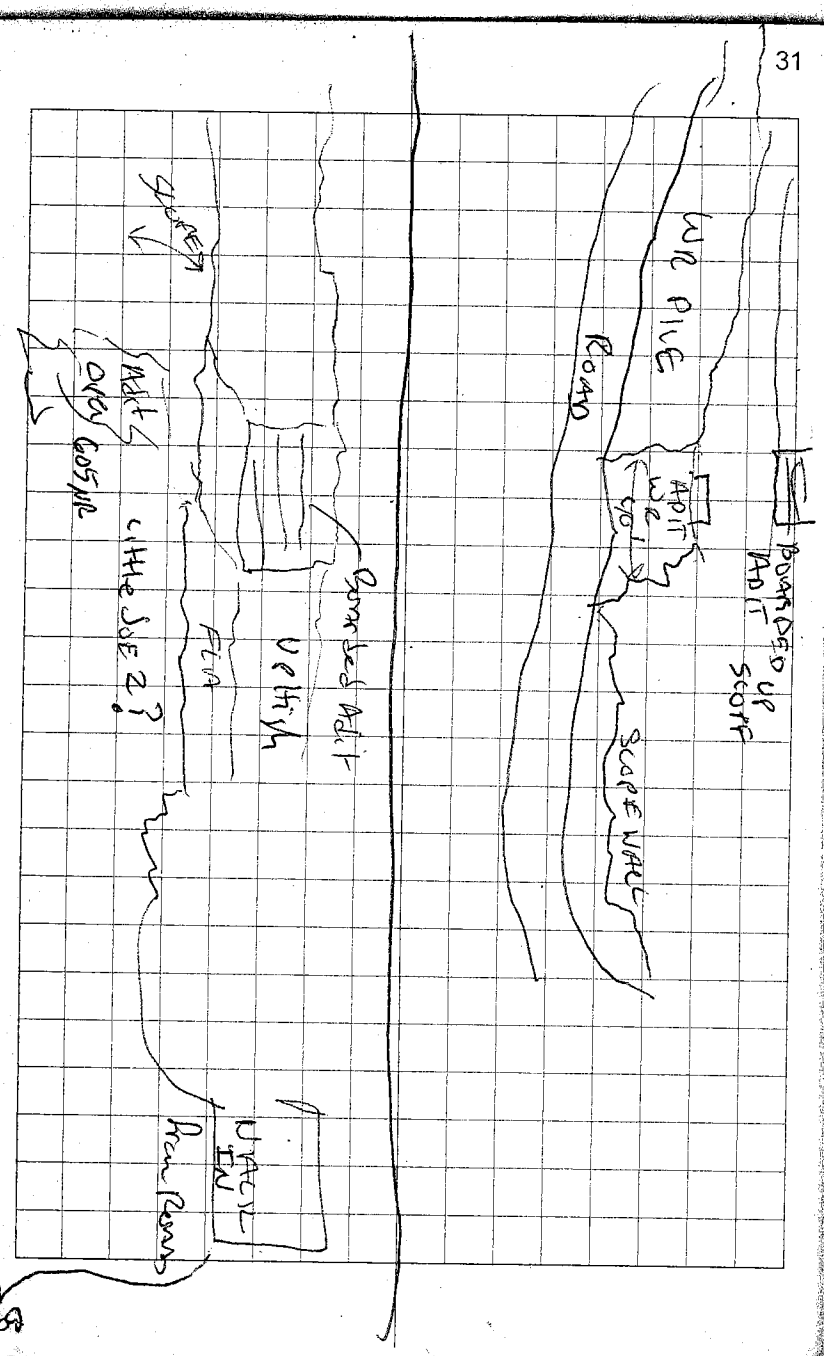
4-4-08

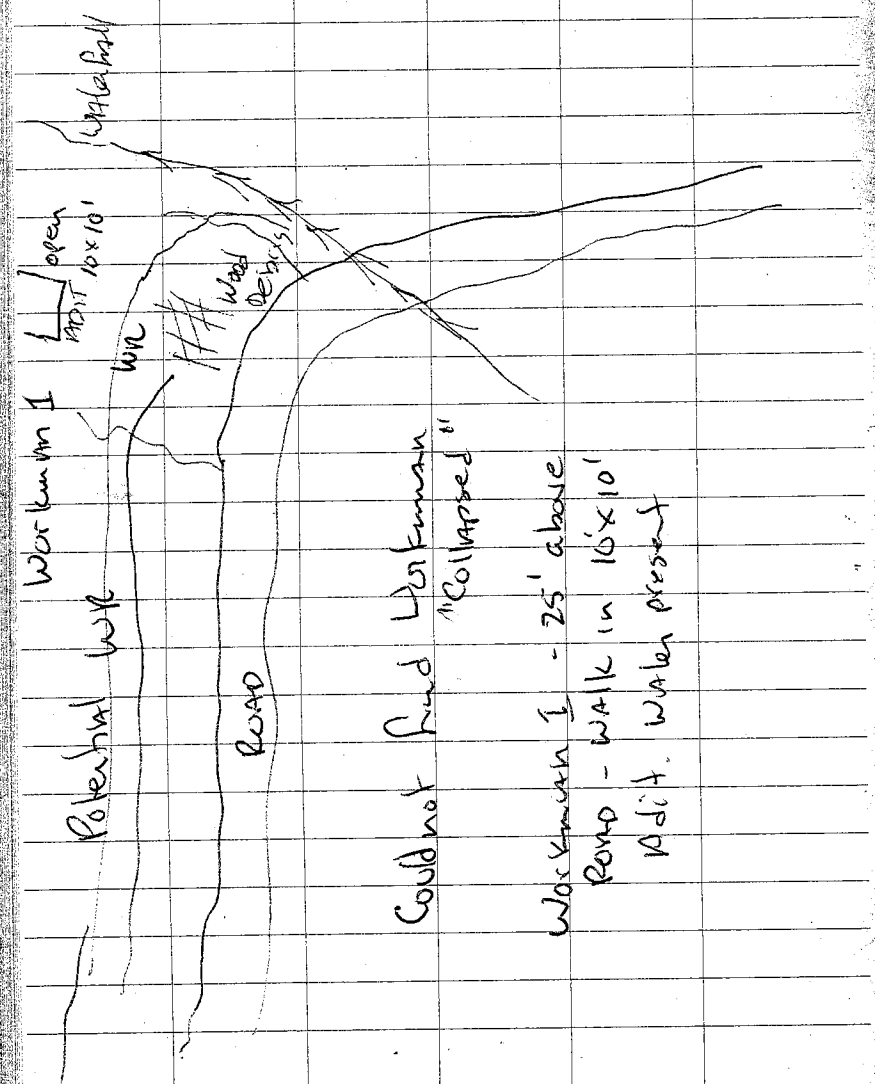
1100 * GPS Logger Battery dead. — Will GPS with handheld for here out Manually writing Gamma Readings

Way Pt	NR	Description	Photo
169	182	Drainage East of L. Joe 3	
170	162		
171	81		
172	51		
173	80		
174-180	107	Potential WR PILE	2357
181-194	129	WR PILE North of L. Joe 2	2358
		↳ 60' 15'	
195	157	Little Joe 2 from Road	
	605	At Lower Adit "Open"	2361
		Upper Adit is too high	
196-200	160	Joe 2 to	
201	576	Open Walk In Adit 6x6'	2362
202-205	248	WR in front of Adit	2363-65
206	493	Workman 2 Boarded	66-67
		Wyoming Mineral Corp Tags	
207	355		
208	229		
209	151		
210	35	Junction in Road	
211	36		

000725

Way Pt	NR	Description	Photo
213	35	Wood Structure below road	2368
214	25		
215	37		
216	159	Workman Collapsed	
217	394	Workman 1 open 20' above Road 8x8' Adit	
221	104		
222-23	53	Road West Along WR	
224-227	39	Potential Front End of WR Pile	
228	191	Hot spot on west side of Road	2373
		Up Drainage above Wood Pile	
229	28		
230	17		
231	18		
232	32	Road To ~~Hope Mine Area~~ East Backside of ~~[illegible]~~ Mines Correct	
233	24		
234	18	Drainage	
235	10		
236	11		
237	14	Drainage	
238	7	246-49 17	
239	13		
240	10	243 7	244 7
241	14	244 6	245 16
242	15		



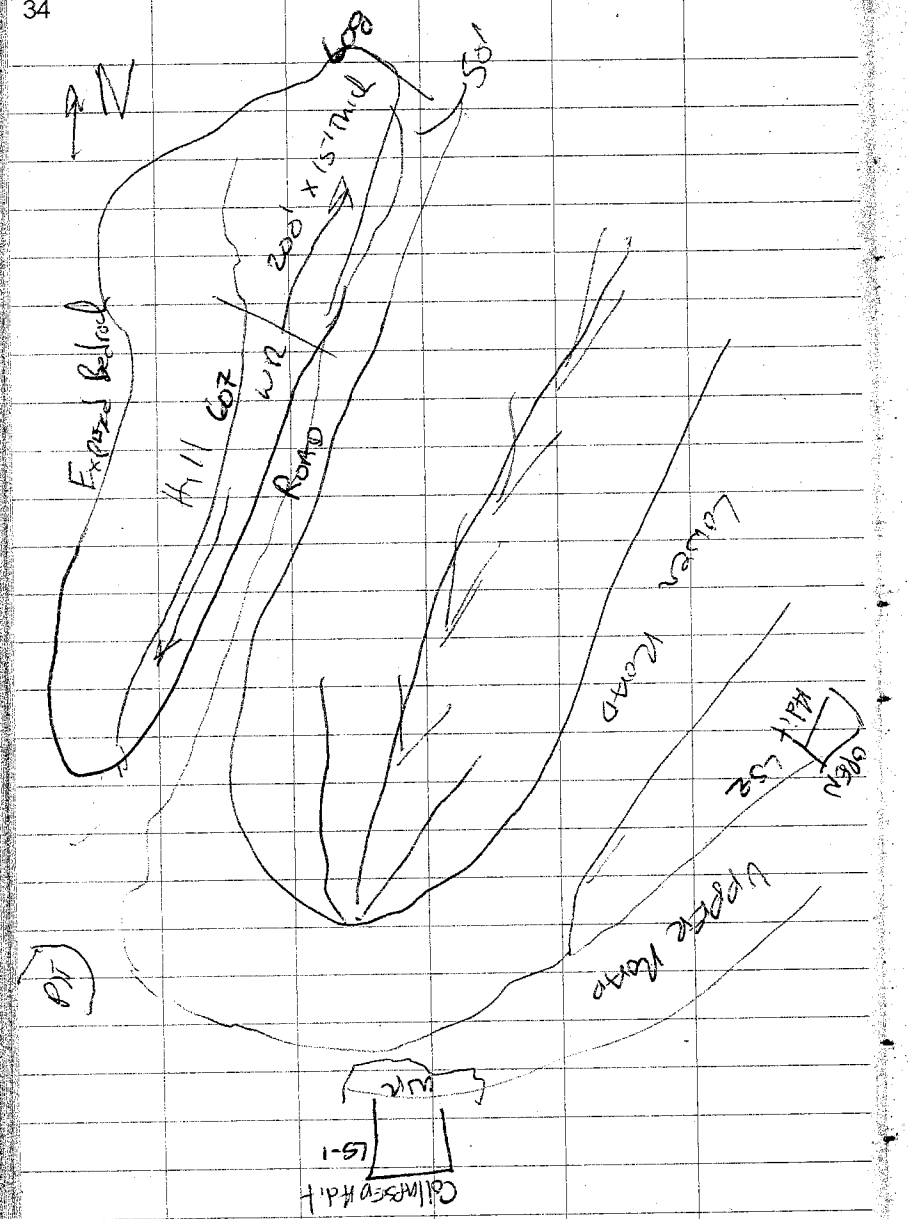


1235 - Ended on Road FR 3222
like Thursday's starting point
Somehow missed Juct for FR3223
Final Waypoints 256, 257, 258
1300 Arrived back at Honey Creek
1300-1330 Ate lunch
1340 - Up to Lucky Stop / Lost Dog

Wp	Photo	NR	Description
259	N		Up to LS/LD across Creek
260			Drainage
261-279			Road Dead Ended
280			Tree Yellow/Blue Stake L88N Δ 20E
281-83			
284	2378	78	Pit at Lucky Stop
285-303	2379-80		Waste Rock top of hill
304	2381-83	106	Collapsed Adit Stake Adit 11 "WCS" Luck 1
305-6			
307		338	Hot Spot East side of Pile
308	2386	439	Open Adit Lucky 2 5x5'
309-10	2396		Road To Luck Stops Covergrown

1700 → Completed Lucky Dog Left Site

000727



DATE April 5, 2008
Personnel - R. Logsdon L. Simmons
Objective - Cutline Gamma Survey
Weather - Cool clear 50°

815 - Started on 3224 from Honey Creek Parking

WP	NR	Description	Photo
311		Start Hike 3224	
312-13		Turn to 3224 - B	
314-16		Leading to Intersection 3224B	
317		Intersection 3224B	
318-319		3224B to 3223H	
320-327	200	Dead end spur 3223H Not Good for ATVs	
328		Back on main 3223H	
331		Turn down hill to Little Joe's?	
332-341		Lost up & down past L. Joe 4 & 5	
342		Past L. Joe's 4 & 5	
343	28000	Up drainage Past L.J 4 & 5	2398/99
347	29000		
348	17		
349	17		
350-353	17	Hike thru woods above LJ4	
355	17	North area LJ 4 & 5	
356	17		
357			

000728

4/5/08

957 Trail up past LJ 4:5 is not obvious and is overgrown
Somehow dropped down from 3222 to 3224A without passing LJ 4:5

1006 GPS Trimble battery died
- will take manual readings for rest of day

4/5/08

WP	NR	Resume	Photo
358		Y in Road	
359	20		
360	20	STEEP UP	
361	22		
362	22	Another Y in Road	
363	50	Road up	
364	27		
364-66	31		
367-71	32	Piezometer Test Well 6" PVC (W1141 DH East)	
372		CMG P16 Stake	
373-74	16		
380-82	19		
383-87	11	Piezometer Test Well (W484 DH)	
388	16	Bob w. reference ↑ Stake (W1139 DH East)	2401
389-92	18	Bobwire wire here below	
393-94	20	Up other front	
395	17	Piezometer (W1137 E) DH	
399	19	CMG-P13 stake	
400	21	Another seep road	
408	21	W481 DH well	
412	21	W482 DH	
416	41	W1142 DH East	
419	18	W483 well	
421	18	Barb w reference	

4/5/08

WP	NR	Description	Photo
422	55	Y in Road Ho Reading in gravel	2402
423	20	Starting Down Lower Y	
424-28	26	Rocky Tallus	
433-34	25	Well 1049 DH East	
439-40	25	well 1148 DH Ens	
444	18	Heading S from Y in road	
447	17	Past Woods Trail Above L Ines	
448-453	18	Y Down Road	
454		Up High Road	
455-57	16		
461	17		
462-68-72	18		
473	20	Y Upper Road	
482-83	13	Road End in drainage	
486	20		
491-93	27		
494	20	Well at Point Y	
495	128	Hot Spot South of Well	
496-98	30		
499	45		
500-07	38		
510	40	metal Pipe in ground	2403
513	93	PVC Drainage Pipe	2404

4/5/08

WP	NR	Descn	Photo
514	337	Adit Boarded up 6x6'	
515	180	Adit #3 STAKE WCN	
516	168	Below Adit 3	
517-21	35	To Jct 3223	
522	190	Blue Flagges	
523	35	Up Steep Road Above Mines	
524-28	30		
	19		
529-531	20	Up steep hill	
532	15	Intersection top of Hill	
533-39	18		
540	18	PVC Pipe	
541-47	16-19		
548-56	17-19	PVC Pipe @ 556	
559	15	Stake L122N Δ22E	
563	40	Start down 3223	
564	9, 10, 15	——— End @ 3222	
569-70	11	start 3223 at bottom	
571	29		
572-73	17		
574-78	14		
581	15	Cost Trail	

581 MINZANITA TOO Thick

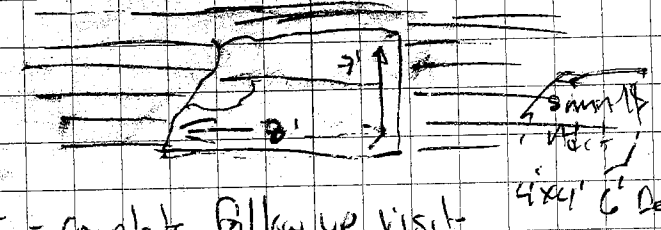
000730

4/5/08

WP	NR	Descript	Photo
583	10	Jon Mine Adit opening Road	
584	40		
585	57		
586	70		
587	96	Small Adit opening	
588	30	Adit Opening	
589	8	GATE up to Falls	
590-91	9		
592	15		
593	20		
594	12		
595-96	12	Bridge at Falls	
597	12	Falls View	
590-600	14	600 Even w Falls	
601-3	12		
604	7	At Sample Point above Wa	
605	13	Adit just above GATE	2419
		↳ "UNKnown Adit"	

4/5/08

1530 Little Jon Follow up
No waste Rock Pile



1545 - Complete follow up visit
1546 - Hike up to Falls
1640 - Left Site

4/5/08

DATE April 6, 2008 Sun
Personnel R. Lugsdon L. Summer
Weather 40s - AM 60s afternoon clear cool
Objective Finish Recon LD/LS & Sucherite
800 ONSITE Start up trail

WP	NR	Description	Photo
606		Turn to LS 1, 2, 3 Manzanita Thick	
607-08		Potential Waste Rock Pile LS	~~[illegible]~~ 2425-26
609		Timbers Top of WR	2427
610		Lucky Stop #3 Change Notes for the other	
		day "Adit 12" stake	
		Dipping Beds LS 1-2-3	
		LS-2 Adit 11	
611		Start Road to Lost Dog	
612		PVC Vent Pipe	2428 V-S
614		Prospect Test Pit	2429-31
		WR - 30' x 8' x 6' deep	
		Erosional Rill to West of Prospect	
615	200	LS-UK-1 (Adit 13)	
616-621		Adit down drainage to Test Pit	2432-40
622-43-47	50	WR ~~[illegible]~~ PILE on both sides	
648-654		of Drain	
		WR PILE ~~[illegible]~~ East of	2441
		Test Pit	
655	8' high	WR west side of Test Pit	2442-3

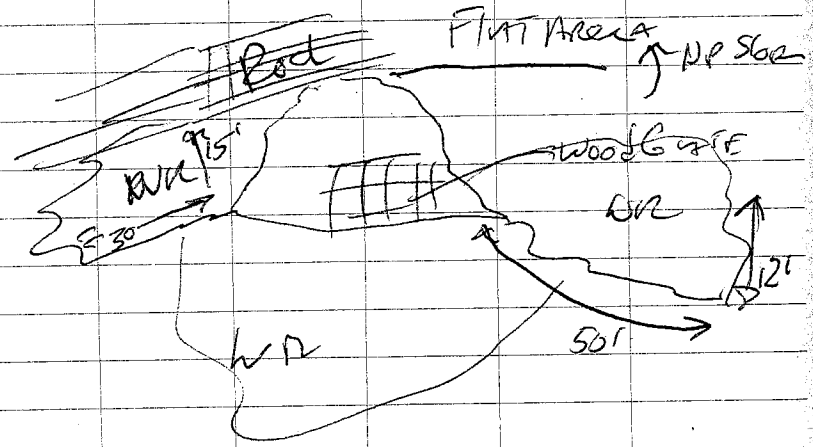
WP	NR	Description	Photo
657		Test Pit Up Hill Wside Road	2444
658		Vent Well 6"	
659-60	99	Test Pit Lost Dog	2445
661-64		Vent @ 664 - uphill from Test Pit	
665-71	73	Potential WR	2448-49
675		Steel Vent Pipe 6"	2447
676		PVC Vent	2446
677-81		Read End UP	
682-92		Walking to Lucky stop	
693-94	93	LS-4 Partially open Adit 3'h x 5'w	2450-51
699-700	88	Adit 8'x8' ~~LS-5~~ LD-5	2452
701		Large Cut Back to Adit Lucky Stop 5	2453-54
	321	Opening 8 x 12'h (Adit 16)	2455
702	122	Adit open front & top Lost Dog 2	2456-57
		10x10' Top 5x5 from (Adit 17)	
		View to west of waste Pile	2458-57
		40' high	
703	89	Lost Dog 1 3'x6'w opening	2458-59-60
704	198	Lost Dog 3 6'x6' (ADIT)	2461
705	60	Turn down to LD-1	
706-716	20-40	Road Down to Intersect	
716		Jnct in Trail	

1320 — Completed Lost Dog/Lucky Stop

000732

1420 At Roads Below Sulerite

WP	NR	Description	Photo
717	14	"Y" In Roads Up to Sulerite	
718-720	10	Up Roads	
721-22	35		
723-25	80		
726	49		
727	560	Adit Lower? 7'H x 9'W Whole Rockville side of	2462-6364 Adit
728	130	Walking East	
729	20	" "	



Could not find upper Adit

733-34 - Upper Bench above lower Adit
740 - On Top of lower Adit
No sign of upper Adit
Photo ~~[illegible]~~ 2467-69

1530 Completed Sulerite
Could only find one Adit
up the main Roads.

WESTON GPS Coords
NAD 83 Zone 12 - UTM

Creekside CG (##) USFS Coords

Waypoint	Description on Location
001	Creeksid CG Sign at drive way (35)
002	Large Tree Creekside (48)
003	Creekside Pine Tree (111)
004	CrCG-5
005	Pine Tree Creeksid (112)
006	Bathrm corner (91)
007	Bathrm corner (90)
008	CrCG-4
009	CrCG-3
010	CrCG-2
011	CrCG-1
012	LS/LD-1 - need LS/LD 2
013	HMHS-1
014	HMHS-2
015	HMHS-3
016-20	Slope side of Road
021	HMHS-WR-1 Top of pile next to creek
022-24	HMHS-WR1 - to mine road
025	slope side of road
026-27	Road meets WASTE Rock
028	HMHS-WR-2

Waypoint	Description (##) USFS Coords
029	- CaCG Sign (94)
030	- CaCG-1 sample
031	- CaCG-2 sample
032	- CaCG-3 sample
033	- CaCG Bathrm (101)
034	- CaCG Bathrm (105)
035	- CaCG-4
036	- CaCG-5
037	- CaCG Pine Tree (206)
038	- BIG DADDY PINE (154)
039	- Suckerite "Y" in road to mine
040	- SW-3W above WEIR
041	- SW-4W Below Falls CG
042	- SW-5W ABOVE Jon Adit/Cascade
043	- SW-13W Jon Adit + dupe
044	- SW-6W
No Handheld	SW-7W 3743924 N 504512 E
045	SW-9W Below Creekside CG
046	SW-10W
47	SW-11W

000734