

**FIRE SHELTER DEPLOYMENT**

**CANYON CREEK FIRE  
(Elk Zone)**

**September 6, 1988**

INVESTIGATION TEAM

Stan Shields - Team Leader

Richard Kimberlain

Jim Hocking

#### INCIDENT BRIEF

On the afternoon of September 6, 1988, there was a multiple fire shelter deployment incident on the Canyon Creek Fire. A total of 107 people of Division A of the Elk Creek Zone deployed their shelters in a safety zone on the ridge between Moudess and Jakie creeks as the fire burned over the area. There were no fatalities involved or injuries requiring hospital treatment. All personnel of Division A, about 170, walked out of the area the next day around 0800 and the majority were released and demobilized home later on September 7, 1988.

## NARRATIVE

Instructions for tactical control operations for personnel assigned to Division A were to "construct handline around slopover, finish burnout and start mop-up 2 chains in." Special instructions were to "complete burnout if not already completed." The weather information of the shift plan was based on a Missoula forecast of 1330 hours on 9/5/88. It called for a red flag alert for a wind shift and increase in velocity. Specifically it called for lower temperatures, higher RH and winds of 10-20 mph from the west across ridges. The fire behavior forecast indicated that wind changes would likely occur around mid-day and that rates of spread in the lodgepole type might more closely resemble those of Southern California chapparral. The shift plan safety message advised of probable extreme rates of spread and erratic fire behavior and to pre-plan escape routes, safety zones and the use of lookouts.

Division A fireline had previously been anchored at Welcome Pass and completed in a northeasterly direction to the confluence of Jakie and Smith creeks. Burnouts of indirect portions of the line had been conducted the previous day. Crews were lining and mopping up slopovers from these burnouts.

At 1124 on 9/6 a special "wind warning" was relayed by radio with all divisions confirming as having received. The warning stated "25-35 mph winds are starting to surface and should reach the east side of the Continental Divide within 2 hours. Take all necessary precautions. Have safe areas identified and ready to deploy to." Shortly thereafter the wind began to change to a more westerly direction.

Sometime between noon and 1500 hours the Division's designated safety zone was burned off to remove the light grass cover. When completed it measured approximately 300 by 500 feet (about 5 acres) in an oval shape on a side slope of about 25 to 30 percent facing southwest. It was located several hundred yards above the saddle through which Trail No. 214 passes going from Jakie Creek drainage into Moudess Creek in the SE 1/4 of Section 35. It was outside and adjacent to the fireline in about the center of Division A.

Around 1400 with wind direction generally from the west the velocities began to increase. At about 1500 lookouts reported spot fires from the Dearborn drainage over Welcome Pass into Moudess Cr. Wind gusts at this time were in the 50+ range with steady readings of 40 mph. The spot fires in Moudess immediately gained momentum and intensity. Overhead began an orderly withdrawal of personnel on Division A to the safety zone. Five of eight crews plus most of the overhead (total of 107) moved into the safety zone shortly after 1500 hours. The other three crews assigned to Division A and working farther down the line in Jakie Creek moved into previously burned out and cooled down areas inside the fireline.

Sometime around 1630 the main fire front blew through the saddle below the safety zone and all around its perimeter igniting gear stowed at the outer edges away from personnel locations. As the peak intensity of the fires ran over the safety zone, fire shelters were deployed as added protection against injury to personnel.

Despite the "winds warning" message of earlier in the day a number of individuals later expressed surprise at the velocities and duration of the winds that blew the fire out of the Dearborn watershed and on east to the plains. Some indicated that had they known of the potentially magnified local weather effects they might have considered getting clear of the area sooner.

## FINDINGS

Except for minor injury from airborne embers, fire shelter deployment was not a necessary action in this situation to protect individuals from injury and/or fatality. The safety zone was well located and effective for its intended purpose, i.e., personnel welfare. It was not overly generous in size but adequate to accomplish the objective.

The pre-planning of escape routes and safety zones and their utilization and management was professionally handled by the overhead on site. Having gear and equipment stored safely away from where individuals were located undoubtedly prevented serious injury occurrences.

The use of fire shelters added to confidence levels and hence the control of personnel weathering the fire storm around the safety zone. The use of this personnel protective equipment may also have prevented some minor burns from flying embers.

Other feasible evacuation alternatives do not appear to have been available. No other safety zones of a larger size existed closer than about 6 or 7 miles away at the Goss ranch near DP-4. Foot travel down Jakie and Smith creeks and then around the ridge into the meadows below DP-4 would have been through dense timber which burned to total black during the fire front's run east. Had sufficient and appropriate vehicle transportation been available to pre-position, Division A personnel had sufficient time to retreat to DP-7 for pickup and evacuation from the area.

As for the lack of knowledge regarding local weather characteristics of the Rocky Mountain front country, i.e., the sustained, extremely strong velocity winds, it is difficult at best and speculative to say what effect having a locally experienced Fire Behavior Analyst (FBA) or Fire Weather Forecaster on site for the briefings would have had. The FBA assigned to the Elk Zone IC Team was not listed on overhead orders for the Canyon Creek Fire so home unit and experience background could not be immediately determined. Observed fire behavior in the lodgepole type from the previous day was well written up. However, no mention of local weather characteristics was included in the forecast. Mobile weather units and forecasters were in short supply and not all incidents were able to fill this need.

The crews were offered the counseling services of a Critical Incident Debriefing Team. Several crews took advantage of this service.

**MAPS AND PHOTOS**



EXHIBITS

Exhibit A - Division Assignment List

Exhibit B - Shift Plan, Septebmer 6, 1988

Exhibit C - General Message Regarding Weather Changes

Exhibit D - September 5th News Release from RICO Regarding Worsening Weather  
Conditions

Exhibit E - Notification of Extreme Fire Situation (9/4/88)



Exhibit A

1. BRANCH <b>EAST ZONE</b>		2. DIVISION/ <del>GROUP</del> <b>A</b>		<b>DIVISION ASSIGNMENT LIST</b>					
3. INCIDENT NAME <b>CANYON CREEK</b>				4. OPERATIONAL PERIOD					
				DATE <b>9/6</b> TIME <b>0600-1900</b>					
5. OPERATIONS PERSONNEL									
OPERATIONS CHIEF <b>FRANK BODEN / JERRY HUNMAN</b>				DIVISION/ <del>GROUP</del> SUPERVISOR <b>JERRY DOMBRUSKE</b> ✓					
SAFETY: <b>CHUCK CAULKINS</b> ✓				AIR ATTACK SUPERVISOR NO. <b>DOUG FRANCIS</b>					
6. RESOURCES ASSIGNED THIS PERIOD									
STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR		LEADER		NUMBER PERSONS	TRANS. NEEDED	DROP OFF PT./TIME		PICK UP PT./TIME	
S/T BLACK EAGLE 2 ✓ BLACK EAGLE 4 ✓		DAVID HILL		39	YES	DP-7 0630		DP-7 1900	
S/T BLACKFEET 75 ✓ BLACKFEET 76		CRAIG COWIE		38	YES				
S/T BLACKFEET 74 ✓ BLACKFEET 73		DAN MANNING		38	YES				
S/T BLACK EAGLE 14 ✓ BLACK EAGLE 3 ✓		JOHN NEWMAN		40	YES				
LINE LOCATOR LOOKOUT		GALEN ROESLER		1	YES				
S/T DOZER D-6 DOZER D-7		GOSS		2	NO				
SAWYER		BRUCE HAUSEMEN		1	NO				
SAW TEAM		TEMPLE/PETERS		2	NO				
SAW TEAM		MCGHEE/MCNERNY		2	YES	✓		✓	
SAW TEAM		JAMES/PETERSON		2	NO				
SAW TEAM		CLARKE/BARBOUR		2	NO	✓		✓	
Lookout H-31		McIlwain							
7. CONTROL OPERATIONS <b>CONSTRUCT HANDLINE AROUND SLOPOVER. FINISH BURNOUT. START WOOD-UP 2 CIGARS IN.</b>									
8. SPECIAL INSTRUCTIONS <b>COMPLETE BURNOUT IF NOT ALREADY COMPLETED.</b>									
9. DIVISION/GROUP COMMUNICATION SUMMARY									
FUNCTION		FREQ.	SYSTEM	CHAN.	FUNCTION		FREQ.	SYSTEM	CH
COMMAND	LOCAL	168.100	C2/C3	4	STATUS/ LOGISTICS	LOCAL			
	REPEAT	170.450	C2/C3	5		REPEAT			
DIV/GROUP TACTICAL		168.050	C2/C3	1	GROUND TO AIR		168.600	C2/C3	3
PREPARED BY (RESOURCE UNIT LDR.) <b>Gregg W. Hollenhorst</b>					APPROVED BY (PLANNING SECT/CH.) <b>Orlth L. Smith</b>			DATE <b>9/5/81</b>	TIME <b>2130</b>

Exhibit A

NO NIGHT SHIFT

Exhibit B

# Breakout



GILBERT  
GD  
ALASKA HEALTH  
C. H. H. C.

at

## ELK CREEK

September 6, 1963  
Shift Plan

<h2 style="margin: 0;">INCIDENT OBJECTIVES</h2> <p style="text-align: right; margin: 0;">ICS 202</p>	<p>1. INCIDENT NAME</p> <p style="font-size: 1.2em; margin: 0;">CANYON CREEK ELK CR. DIV.</p>	<p>2. DATE PREPARED</p> <p style="font-size: 1.2em; margin: 0;">9/4/88</p>	<p>3. TIME PREPARED</p> <p style="font-size: 1.2em; margin: 0;">2000</p>
<p>4. OPERATIONAL PERIOD (DATE/TIME)</p>			
<p>5. GENERAL CONTROL OBJECTIVES FOR THE INCIDENT (INCLUDE ALTERNATIVES)</p>			
<p># CONTINUE TO KEEP FIRE FROM SPREADING TO PRIVATE STRUCTURES AND PROPERTY</p> <p># Build Line you CAN HOLD AND SECURE</p> <p># PROVIDE ESCAPE ROUTES FOR EVERYONE AND MAKE SURE THEY ARE KNOWN.</p> <p># DIVISION SUPERVISORS USE RESOURCES WISELY AND COORDINATE WITH ADJOINING DIVISIONS.</p> <p># MOPUP AREAS WHICH ARE READY - HAVE LINES READY FOR WINDS AND CHANGES IN DIRECTIONS.</p>			
<p>6. WEATHER FORECAST FOR OPERATIONAL PERIOD</p>			
<p style="text-align: center; font-size: 1.5em;">SEE ATTACHED</p>			
<p>7. GENERAL/SAFETY MESSAGE</p>			
<p style="text-align: center; font-size: 1.5em;">SEE ATTACHED</p>			
<p>8. ATTACHMENTS ( / IF ATTACHED)</p>			
<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <p><input checked="" type="checkbox"/> ORGANIZATION LIST (ICS 203)</p> <p><input checked="" type="checkbox"/> DIVISION ASSIGNMENT LISTS (ICS 204)</p> <p><input checked="" type="checkbox"/> COMMUNICATIONS PLAN (ICS 205)</p> </div> <div style="width: 50%;"> <p><input checked="" type="checkbox"/> MEDICAL PLAN (ICS 206)</p> <p><input checked="" type="checkbox"/> INCIDENT MAP</p> <p><input checked="" type="checkbox"/> TRAFFIC PLAN</p> </div> <div style="width: 50%;"> <p><input checked="" type="checkbox"/> SAFETY MESSAGE</p> <p><input checked="" type="checkbox"/> FIRE BEHAVIOR + WEATHER</p> </div> </div>			
<p>ICS 202</p>	<p>3. PREPARED BY (PLANNING SECTION CHIEF)</p> <p style="font-size: 1.2em;">Ed Morris</p>	<p>10. APPROVED BY (INCIDENT COMMANDER)</p> <p style="font-size: 1.2em;">J. C.</p>	

ORGANIZATION ASSIGNMENT LIST ICS-203		1. INCIDENT NAME	2. DATE PREPARED	3. TIME PREPARED
		EAST ZONE	9/5	2200
POSITION NAME		4. OPERATIONAL PERIOD (DATE/TIME)		
5. INCIDENT COMMANDER AND STAFF		DAY		
INCIDENT COMMANDER	ED MORRIS	8. OPERATIONS SECTION		
DEPUTY		CHIEF		
SAFETY OFFICER	TED TYEIDT	DEPUTY		
INFORMATION OFFICER	JEAN HAWTHORNE	9. BRANCH I - DIVISIONS/GROUPS		
LIAISON OFFICER		BRANCH DIRECTOR		
6. AGENCY REPRESENTATIVES		DEPUTY		
AGENCY	NAME	DIVISION/GROUP		
CIVIL RTS	CHARLES TRIBE	A JERRY DOMBROUSKE		
MDL	SUZANNE SCHINDER	B BILL SWOPE		
MDL	CHARLIE WHITE	C BILL SWOPE		
		D LARRY ROBINSON		
		E ANDY GAY		
7. PLANNING SECTION		11. BRANCH II - DIVISIONS/GROUPS		
CHIEF	ART SMITH	BRANCH DIRECTOR		
DEPUTY		DEPUTY		
RESOURCES UNIT	G. KLEINDIENST/J. BRONNE	DIVISION/GROUP		
SITUATION UNIT	DAVE SILVENS	DIVISION/GROUP		
DOCUMENTATION UNIT	JIM GERBER	DIVISION/GROUP		
DEMOBILIZATION UNIT		DIVISION/GROUP		
TECHNICAL SPECIALISTS		DIVISION/GROUP		
	FBA FRITZ CANILL	12. STRUCTURE		
		DIVISION/GROUP		
		DIVISION/GROUP		
		DIVISION/GROUP		
		DIVISION/GROUP		
		DIVISION/GROUP		
8. LOGISTICS SECTION		13. AIR OPERATIONS BRANCH		
CHIEF	DEAN McALISTER	AIR OPERATIONS BR. DIR.		
DEPUTY		AIR ATTACK SUPERVISOR		
9. SUPPORT BRANCH		AIR SUPPORT SUPERVISOR		
DIRECTOR		HELICOPTER COORDINATOR		
SUPPLY UNIT	RALPH BANE	AIR TANKER COORDINATOR		
FACILITIES UNIT	DON COBURN	14. FINANCE SECTION		
GROUND SUPPORT UNIT	GARY ELMORE	CHIEF		
10. SERVICE BRANCH		DEPUTY		
DIRECTOR		TIME UNIT		
COMMUNICATIONS UNIT	RICHARD ALLRED	PROCUREMENT UNIT		
MEDICAL UNIT	LARRY BUNGE	COMPENSATION/CLAIMS UNIT		
FOOD UNIT		COST UNIT		
203	ICS 1/82	PREPARED BY (RESOURCES UNIT)		JOYCE OLSON
				LYNN CARD
				MARC GRESS
				EVELYN SAVACHKA

[illegible]

1. BRANCH <b>EAST ZONE</b>	2. DIVISION/ <del>GROUP</del> <b>A</b>	<b>DIVISION ASSIGNMENT LIST</b>	
3. INCIDENT NAME <b>CANYON CREEK</b>		4. OPERATIONAL PERIOD DATE <b>9/6</b> TIME <b>0600 - 1900</b>	
		5. OPERATIONS PERSONNEL	
OPERATIONS CHIEF <b>FRANK BODEN / TERRY LINMAN</b>		DIVISION/ <del>GROUP</del> SUPERVISOR <b>JERRY DOMBROUSKE</b>	
SAFETY: <b>CHUCK CAULKINS</b>		AIR ATTACK SUPERVISOR NO. <b>DAUG FRANCIS</b>	

6. RESOURCES ASSIGNED THIS PERIOD						
STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR	LEADER	NUMBER PERSONS	TRANS. NEEDED	DROP OFF PT./TIME	PICK UP PT./TIME	
S/T BLACK EAGLE 2 BLACK EAGLE 4	DAVID HILL	39	YES	DP-7 0630	DP-7 1900	
S/T BLACKFEET 75 BLACKFEET 76	CRAIG CONIE	38	YES			
S/T BLACKFEET 74 BLACKFEET 73	DAN MANNING	38	YES			
S/T BLACK EAGLE 1 BLACK EAGLE 3	JOHN HEWITAN	40	YES			
LINE LOCATOR LOOK OUT	GALEN ROESLER	1	YES			
S/T DOZER D-6 DOZER D-7	GOSS	2	NO			
SAWYER	BRUCE HAUSEMAN	1	NO			
SAW TEAM	TEMPLE/PETERS	2	NO			
SAW TEAM	MCGHEE/MCNERNY	2	YES			
SAW TEAM	FORREST/ROGERSON	2	NO			
SAW TEAM	CLARER/BARBOR	2	NO			

7. CONTROL OPERATIONS  
**CONSTRUCT HANDLINE AROUND SLOPOVER. FINISH BURNOUT.**  
**START 1100-1120 2 CHAINS IN.**

8. SPECIAL INSTRUCTIONS  
**COMPLETE BURNOUT IF NOT ALREADY COMPLETED.**

9. DIVISION/GROUP COMMUNICATION SUMMARY									
FUNCTION		FREQ.	SYSTEM	CHAN.	FUNCTION		FREQ.	SYSTEM	
COMMAND	LOCAL	168.100	22/C3	4	STATUS/ LOGISTICS	LOCAL			
	REPEAT	170.450	22/C3	5		REPEAT			
DIV/GROUP TACTICAL		168.050	22/C3	1	GROUND TO AIR		168.600	22/C3	
PREPARED BY (RESOURCE UNIT LDR.) <b>Greg W. H. [Signature]</b>					APPROVED BY (PLANNING SECT. CH.) <b>Arthur L. Smith [Signature]</b>			DATE <b>9/5/86</b>	TIME <b>21</b>





BRANCH <b>EAST ZONE</b>	2. DIVISION/ <del>GROUP</del> <b>C</b>	<b>DIVISION ASSIGNMENT LIST</b>	
1. INCIDENT NAME <b>CANYON CREEK</b>		4. OPERATIONAL PERIOD DATE <b>9-6-88</b> TIME <b>0600-1900</b>	
5. OPERATIONS PERSONNEL			
OPERATIONS CHIEF <b>Frank Boden/Jerry HINMAN</b>		DIVISION/ <del>GROUP</del> SUPERVISOR <b>BILL SWOPE</b>	
SAFETY <b>DON RICHARDS</b>		AIR ATTACK SUPERVISOR NO. <b>DOUG FRANCIS</b>	

6. RESOURCES ASSIGNED THIS PERIOD							
STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR	LEADER	NUMBER PERSONS	TRANS. NEEDED	DROP OFF PT./TIME		PICK UP PT./TIME	
<b>ENG 45</b>	<b>CHRIS HINES</b>	<b>3</b>	<b>No</b>	<b>DP-1</b>	<b>0630</b>	<b>DP-1</b>	<b>1900</b>
<b>ENG 72</b>	<b>BECKY WHITE</b>	<b>2</b>	<b>No</b>	↓	↓	↓	↓

7. CONTROL OPERATIONS

— PATROL —

CHECK FOR SPOTS

8. SPECIAL INSTRUCTIONS

9. DIVISION/GROUP COMMUNICATION SUMMARY									
FUNCTION		FREQ.	SYSTEM	CHAN.	FUNCTION		FREQ.	SYSTEM	C
COMMAND	LOCAL	<b>168.075</b>	<b>C2/C3</b>	<b>6</b>	STATUS/ LOGISTICS	LOCAL			
	REPEAT	<b>170.425</b>	<b>C2/C3</b>	<b>7</b>		REPEAT			
DIV/GROUP TACTICAL		<b>168.200</b>	<b>C2/C3</b>	<b>2</b>	GROUND TO AIR		<b>168.600</b>	<b>C2/C3</b>	
PREPARED BY (RESOURCE UNIT LDR.) <b>Bruce W. Hland</b>				APPROVED BY (PLANNING SECT. CH.) <b>Cliff Smith</b>			DATE <b>9/5/88</b>	TIME <b>213</b>	

BRANCH <b>EAST ZONE</b>	2. DIVISION/ <del>GROUP</del> <b>D</b>	<b>DIVISION ASSIGNMENT LIST</b>
1. INCIDENT NAME <b>CANYON CREEK</b>		4. OPERATIONAL PERIOD DATE <b>9-6-88</b> TIME <b>0600-1900</b>

5. OPERATIONS PERSONNEL	
OPERATIONS CHIEF <b>FRANK BODEN/JERRY HINMAN</b>	DIVISION/ <del>GROUP</del> SUPERVISOR <b>LARRY ROBINSON</b>
SAFETY <b>DON RICHARDS</b>	AIR ATTACK SUPERVISOR NO. <b>DOUG FRANCIS</b>

6. RESOURCES ASSIGNED THIS PERIOD					
STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR	LEADER	NUMBER PERSONS	TRANS. NEEDED	DROP OFF PT./TIME	PICK UP PT./TIME
S/1 BLACKFEET 77 BLACKFEET 78	DALE CUYLER	38	YES	BASE TO DP-3 0630	DP-3 TO BASE 1900
SKIDGEN'S #1 + #2	LUNE LANDSBERGER	2	NO		
DOZER BOSS TY II	DAVE HETTICK	1	YES		
DOZER D-6D	ROGER ZUPON	1	NO		
SAW TEAM	HARDING/BELL	2	NO		
SAW TEAM	STANKE/KOEPPLE	2	NO		

7. CONTROL OPERATIONS

**FINISH BURNOUT IF NOT COMPLETE**

**SECURE LINES AND BEGIN MOP-UP**

8. SPECIAL INSTRUCTIONS

9. DIVISION/GROUP COMMUNICATION SUMMARY

FUNCTION	FREQ.	SYSTEM	CHAN.	FUNCTION	FREQ.	SYSTEM
MMAND	LOCAL	168.075	C2/C3	6	STATUS/ LOGISTICS	LOCAL
	REPEAT	170.425	C2/C3	7		REPEAT
DIV/GROUP TACTICAL	168.200	C2/C3	2	GROUND TO AIR	168.600	C2/C3

PREPARED BY (RESOURCE UNIT LDR.) <b>Sergeant W. K. Brindson</b>	APPROVED BY (PLANNING SECT. CH.) <b>D. L. Smith</b>	DATE <b>9/5/88</b>	TIME <b>213</b>
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# WELCOME G.S. CAMP

## DIVISION ASSIGNMENT LIST

1. BRANCH <b>EAST ZONE</b>		2. DIVISION/GROUP <b>E</b>		<div style="font-size: 1.5em; font-weight: bold;">DIVISION ASSIGNMENT LIST</div>				
3. INCIDENT NAME <b>CANYON CREEK</b>		4. OPERATIONAL PERIOD DATE <b>9-6-88</b> TIME <b>0600-1900</b>						
5. OPERATIONS PERSONNEL								
OPERATIONS CHIEF <b>FRANK BODEN/JERRY HINMAN</b>				DIVISION/GROUP SUPERVISOR <b>ANDY GAY</b>				
				AIR ATTACK SUPERVISOR NO. <b>DOUG FRANCIS</b>				
6. RESOURCES ASSIGNED THIS PERIOD								
STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR	LEADER	NUMBER PERSONS	TRANS. NEEDED	DROP OFF PT./TIME	PICK UP PT./TIME			
<b>REDMOND H.S.</b>	<b>JOHN HOLCOMB</b>	<b>19</b>	<b>NO</b>	<b>SPIKE TO LINE 0600</b>	<b>LINE TO SPIKE 1900</b>			
<b>SIT FT. PECK 59 FT. PECK 60</b>	<b>MIKE ERK</b>	<b>40</b>	<b>NO</b>	<b>↓</b>				
<b>SAW TEAM</b>	<b>SODERBERG/OSTMAN</b>	<b>2</b>	<b>YES</b>	<b>FLY TO WELCOME GUARD STATION</b>				
<b>SAW TEAM</b>	<b>WINSTON/JOHNSON</b>	<b>2</b>	<b>YES</b>					
7. CONTROL OPERATIONS								
<p><b>SECURE FIRES EDGE FROM ADVANCING TO NORTH AND WEST IN THE RED SLIDE MT. AND HALFMOON CREEK AREA.</b></p>								
8. SPECIAL INSTRUCTIONS								
9. DIVISION/GROUP COMMUNICATION SUMMARY								
FUNCTION		FREQ.	SYSTEM	CHAN.	FUNCTION		FREQ.	SYSTEM
COMMAND	LOCAL	<b>168.075</b>	<b>C2/C3</b>	<b>6</b>	STATUS/ LOGISTICS	LOCAL		
	REPEAT	<b>170.425</b>	<b>C2/C3</b>	<b>7</b>		REPEAT		
DIV/GROUP TACTICAL		<b>168.200</b>	<b>C2/C3</b>	<b>2</b>	GROUND TO AIR		<b>168.600</b>	<b>C2/C3</b>
PREPARED BY (RESOURCE UNIT LDR.)				APPROVED BY (PLANNING SECT. CH.)			DATE	TIME
							<b>9/5/88</b>	<b>213</b>

## BALD BEAR CAMP

BRANCH <b>EAST ZONE</b>	2. DIVISION/ <del>GROUP</del> <b>G</b>	<b>DIVISION ASSIGNMENT LIST</b>	
IDENT NAME <b>CANYON CREEK</b>		4. OPERATIONAL PERIOD DATE <b>9/6</b> TIME <b>0600 - 1900</b>	

## 5. OPERATIONS PERSONNEL

OPERATIONS CHIEF FRANK BODEN/JERRY HINMAN DIVISION/~~GROUP~~ SUPERVISOR MIKE PEILA  
 BRANCH DIRECTOR \_\_\_\_\_ AIR ATTACK SUPERVISOR NO. DOUG FRANCIS

## 6. RESOURCES ASSIGNED THIS PERIOD

STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR	LEADER	NUMBER PERSONS	TRANS. NEEDED	DROP OFF PT./TIME	PICK UP PT./TIME
WINGMA H.S.	LARRY DECKER	19	YES	FLY TO BALD BEAR SPIKE 0630	LINE TO SPIKE 1900
BLACKFEET 66	WILLIE SHARP	30	YES	FLY TO HELDBASE	- OFF -
BLACKFEET 3	LEON VILLE	40	YES	FLY TO BALD BEAR SPIKE	LINE TO SPIKE
S/F BLACKFEET 71	TIM CAGHLIN	2	YES		
BLACKFEET 72	HOWARD FONTENGT-MILLHOUSE	2	YES		
SAW TEAM	MIZZLE/GARRETT	2	YES		
SAW TEAM					

## 7. CONTROL OPERATIONS

SECURE AND BEGIN WIP-UP OF LINE FROM DEARBORN  
RIVER SOUTH TO END OF LINE.

SUPPRESS SPOTS ALONG RIDGE NORTHEAST OF DEARBORN  
RIVER AND WEST OF STEAMBOAT MT. MAJOR LINE  
CONSTRUCTION MAY BE NECESSARY

## 8. SPECIAL INSTRUCTIONS

## 9. DIVISION/GROUP COMMUNICATION SUMMARY

FUNCTION	FREQ.	SYSTEM	CHAN.	FUNCTION	FREQ.	SYSTEM	CHA
MAND LOCAL	168.075	C2/C3	6	STATUS/	LOCAL		
REPEAT	170.425	C2/C3	7	LOGISTICS	REPEAT		
GROUP	168.050	C2/C3	1	GROUND TO AIR	168.600	C2/C3	3
TACTICAL							

PREPARED BY (RESOURCE UNIT LDR.)

APPROVED BY (PLANNING SECT. CH.)

DATE

TIME

*George W. Z. [Signature]*

*[Signature]*

9/5/82

2130

1. BRANCH <b>EAST ZONE</b>	2. DIVISION/GROUP <b>STRUCTURE PROT.</b>	<b>DIVISION ASSIGNMENT LIST</b>	
3. INCIDENT NAME <b>CANYON CREEK</b>		4. OPERATIONAL PERIOD DATE <u>9/6</u> TIME <u>0600 - 1900</u>	
		5. OPERATIONS PERSONNEL OPERATIONS CHIEF <u>FRANK BODEN / JERRY HINMAN</u> <del>WILSON</del> / GROUP SUPERVISOR <u>SCHINDLER / WHITE</u> BRANCH DIRECTOR _____ AIR ATTACK SUPERVISOR NO. _____	

**6. RESOURCES ASSIGNED THIS PERIOD**

STRIKE TEAM/TASK FORCE/ RESOURCE DESIGNATOR	LEADER	NUMBER PERSONS	TRANS. NEEDED	DROP OFF PT./TIME	PICK UP PT./TIME
<b>TERON VFD</b> 200 GAL. SUP-ON	<b>STL</b> <b>JERRY YEAGER</b>	<b>2</b>	<b>No</b>	<b>ELK CREEK AREA</b> 0630	<b>ELK CREEK AREA</b> 1900
<b>ULM VFD</b> 1500 GAL. W/T	<b>RON STEVENSON</b>	<b>1</b>	<b>No</b>	↓	
<b>GEISE</b> 2000 GAL. W/T	<b>KURT GEISE</b>	<b>1</b>	<b>No</b>		
<b>L+C 1000 GAL. W/T</b>					
<b>TRAY 1500 GAL. W/T</b>	<b>TOM TRAY</b>	<b>3</b>	<b>No</b>		
<b>1000 GAL. ENG</b> <b>DUTTON VFD</b>	<b>STL</b> <b>BILL HABER</b>	<b>2</b>	<b>No</b>	<b>WEISNER RANCH</b>	<b>WEISNER RANCH</b>
<b>1000 GAL. ENG</b> <b>CUTBANK VFD</b>	<b>STL</b> <b>JIM HEWITT</b>	<b>2</b>	<b>No</b>	<b>GOSS RANCH AREA</b>	<b>GOSS RANCH AREA</b>
<b>3400 GAL. W/T</b> <b>POWER VFD</b>		<b>1</b>	<b>No</b>		
<b>1200 GAL. W/T</b> <b>CORNHILL VFD</b>		<b>2</b>	<b>No</b>		
<b>250 GAL. ENG</b> <b>AGUSTA VFD</b>		<b>1</b>	<b>No</b>		
<b>1000 GAL. W/T</b> <b>HODGSKISS (PVT)</b>	<b>BOB HODGSKISS</b>	<b>2</b>	<b>No</b>		
<b>TY II 1150</b> <b>DOZER CASE</b>	<b>W. BARTLETT</b>	<b>1</b>	<b>No</b>	✓	✓

**7. CONTROL OPERATIONS**

**CONTINUE STRUCTURE PROTECTION**

**8. SPECIAL INSTRUCTIONS**

*Set up rainwater system around 5055, 5056, 5057, 5058, 5059, 5060, 5061, 5062, 5063, 5064, 5065, 5066, 5067, 5068, 5069, 5070, 5071, 5072, 5073, 5074, 5075, 5076, 5077, 5078, 5079, 5080, 5081, 5082, 5083, 5084, 5085, 5086, 5087, 5088, 5089, 5090, 5091, 5092, 5093, 5094, 5095, 5096, 5097, 5098, 5099, 5100, 5101, 5102, 5103, 5104, 5105, 5106, 5107, 5108, 5109, 5110, 5111, 5112, 5113, 5114, 5115, 5116, 5117, 5118, 5119, 5120, 5121, 5122, 5123, 5124, 5125, 5126, 5127, 5128, 5129, 5130, 5131, 5132, 5133, 5134, 5135, 5136, 5137, 5138, 5139, 5140, 5141, 5142, 5143, 5144, 5145, 5146, 5147, 5148, 5149, 5150, 5151, 5152, 5153, 5154, 5155, 5156, 5157, 5158, 5159, 5160, 5161, 5162, 5163, 5164, 5165, 5166, 5167, 5168, 5169, 5170, 5171, 5172, 5173, 5174, 5175, 5176, 5177, 5178, 5179, 5180, 5181, 5182, 5183, 5184, 5185, 5186, 5187, 5188, 5189, 5190, 5191, 5192, 5193, 5194, 5195, 5196, 5197, 5198, 5199, 5200, 5201, 5202, 5203, 5204, 5205, 5206, 5207, 5208, 5209, 5210, 5211, 5212, 5213, 5214, 5215, 5216, 5217, 5218, 5219, 5220, 5221, 5222, 5223, 5224, 5225, 5226, 5227, 5228, 5229, 5230, 5231, 5232, 5233, 5234, 5235, 5236, 5237, 5238, 5239, 5240, 5241, 5242, 5243, 5244, 5245, 5246, 5247, 5248, 5249, 5250, 5251, 5252, 5253, 5254, 5255, 5256, 5257, 5258, 5259, 5260, 5261, 5262, 5263, 5264, 5265, 5266, 5267, 5268, 5269, 5270, 5271, 5272, 5273, 5274, 5275, 5276, 5277, 5278, 5279, 5280, 5281, 5282, 5283, 5284, 5285, 5286, 5287, 5288, 5289, 5290, 5291, 5292, 5293, 5294, 5295, 5296, 5297, 5298, 5299, 5300, 5301, 5302, 5303, 5304, 5305, 5306, 5307, 5308, 5309, 5310, 5311, 5312, 5313, 5314, 5315, 5316, 5317, 5318, 5319, 5320, 5321, 5322, 5323, 5324, 5325, 5326, 5327, 5328, 5329, 5330, 5331, 5332, 5333, 5334, 5335, 5336, 5337, 5338, 5339, 5340, 5341, 5342, 5343, 5344, 5345, 5346, 5347, 5348, 5349, 5350, 5351, 5352, 5353, 5354, 5355, 5356, 5357, 5358, 5359, 5360, 5361, 5362, 5363, 5364, 5365, 5366, 5367, 5368, 5369, 5370, 5371, 5372, 5373, 5374, 5375, 5376, 5377, 5378, 5379, 5380, 5381, 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5548, 5549, 5550, 5551, 5552, 5553, 5554, 5555, 5556, 5557, 5558, 5559, 5560, 5561, 5562, 5563, 5564, 5565, 5566, 5567, 5568, 5569, 5570, 5571, 5572, 5573, 5574, 5575, 5576, 5577, 5578, 5579, 5580, 5581, 5582, 5583, 5584, 5585, 5586, 5587, 5588, 5589, 5590, 5591, 5592, 5593, 5594, 5595, 5596, 5597, 5598, 5599, 5600, 5601, 5602, 5603, 5604, 5605, 5606, 5607, 5608, 5609, 5610, 5611, 5612, 5613, 5614, 5615, 5616, 5617, 5618, 5619, 5620, 5621, 5622, 5623, 5624, 5625, 5626, 5627, 5628, 5629, 5630, 5631, 5632, 5633, 5634, 5635, 5636, 5637, 5638, 5639, 5640, 5641, 5642, 5643, 5644, 5645, 5646, 5647, 5648, 5649, 5650, 5651, 5652, 5653, 5654, 5655, 5656, 5657, 5658, 5659, 5660, 5661, 5662, 5663, 5664, 5665, 5666, 5667, 5668, 5669, 5670, 5671, 5672, 5673, 5674, 5675, 5676, 5677, 5678, 5679, 5680, 5681, 5682, 5683, 5684, 5685, 5686, 5687, 5688, 5689, 5690, 5691, 5692, 5693, 5694, 5695, 5696, 5697, 5698, 5699, 5700, 5701, 5702, 5703, 5704, 5705, 5706, 5707, 5708, 5709, 5710, 5711, 5712, 5713, 5714, 5715, 5716, 5717, 5718, 5719, 5720, 5721, 5722, 5723, 5724, 5725, 5726, 5727, 5728, 5729, 5730, 5731, 5732, 5733, 5734, 5735, 5736, 5737, 5738, 5739, 5740, 5741, 5742, 5743, 5744, 5745, 5746, 5747, 5748, 5749, 5750, 5751, 5752, 5753, 5754, 5755, 5756, 5757, 5758, 5759, 5760, 5761, 5762, 5763, 5764, 5765, 5766, 5767, 5768, 5769, 5770, 5771, 5772, 5773, 5774, 5775, 5776, 5777, 5778, 5779, 5780, 5781, 5782, 5783, 5784, 5785, 5786, 5787, 5788, 5789, 5790, 5791, 5792, 5793, 5794, 5795, 5796, 5797, 5798, 5799, 5800, 5801, 5802, 5803, 5804, 5805, 5806, 5807, 5808, 5809, 5810, 5811, 5812, 5813, 5814, 5815, 5816, 5817, 5818, 5819, 5820, 5821, 5822, 5823, 5824, 5825, 5826, 5827, 5828, 5829, 5830, 5831, 5832, 5833, 5834, 5835, 5836, 5837, 5838, 5839, 5840, 5841, 5842, 5843, 5844, 5845, 5846, 5847, 5848, 5849, 5850, 5851, 5852, 5853, 5854, 5855, 5856, 5857, 5858, 5859, 5860, 5861, 5862, 5863, 5864, 5865, 5866, 5867, 5868, 5869, 5870, 5871, 5872, 5873, 5874, 5875, 5876, 5877, 5878, 5879, 5880, 5881, 5882, 5883, 5884, 5885, 5886, 5887, 5888, 5889, 5890, 5891, 5892, 5893, 5894, 5895, 5896, 5897, 5898, 5899, 5900, 5901, 5902, 5903, 5904, 5905, 5906, 5907, 5908, 5909, 5910, 5911, 5912, 5913, 5914, 5915, 5916, 5917, 5918, 5919, 5920, 5921, 5922, 5923, 5924, 5925, 5926, 5927, 5928, 5929, 5930, 5931, 5932, 5933, 5934, 5935, 5936, 5937, 5938, 5939, 5940, 5941, 5942, 5943, 5944, 5945, 5946, 5947, 5948, 5949, 5950, 5951, 5952, 5953, 5954, 5955, 5956, 5957, 5958, 5959, 5960, 5961, 5962, 5963, 5964, 5965, 5966, 5967, 5968, 5969, 5970, 5971, 5972, 5973, 5974, 5975, 5976, 5977, 5978, 5979, 5980, 5981, 5982, 5983, 5984, 5985, 5986, 5987, 5988, 5989, 5990, 5991, 5992, 5993, 5994, 5995, 5996, 5997, 5998, 5999, 6000, 6001, 6002, 6003, 6004, 6005, 6006, 6007, 6008, 6009, 6010, 6011, 6012, 6013, 6014, 6015, 6016, 6017, 6018, 6019, 6020, 6021, 6022, 6023, 6024, 6025, 6026, 6027, 6028, 6029, 6030, 6031, 6032, 6033, 6034, 6035, 6036, 6037, 6038, 6039, 6040, 6041, 6042, 6043, 6044, 6045, 6046, 6047, 6048, 6049, 6050, 6051, 6052, 6053, 6054, 6055, 6056, 6057, 6058, 6059, 6060, 6061, 6062, 6063, 6064, 6065, 6066, 6067, 6068, 6069, 6070, 6071, 6072, 6073, 6074, 6075, 6076, 6077, 6078, 6079, 6080, 6081, 6082, 6083, 6084, 6085, 6086, 6087, 6088, 6089, 6090, 6091, 6092, 6093, 6094, 6095, 6096, 6097, 6098, 6099, 6100, 6101, 6102, 6103, 6104, 6105, 6106, 6107, 6108, 6109, 6110, 6111, 6112, 6113, 6114, 6115, 6116, 6117, 6118, 6119, 6120, 6121, 6122, 6123, 6124, 6125, 6126, 6127, 6128, 6129, 6130, 6131, 6132, 6133, 6134, 6135, 6136, 6137, 6138, 6139, 6140, 6141, 6142, 6143, 6144, 6145, 6146, 6147, 6148, 6149, 6150, 6151, 6152, 6153, 6154, 6155, 6156, 6157, 6158, 6159, 6160, 6161, 6162, 6163, 6164, 6165, 6166, 6167, 6168, 6169, 6170, 6171, 6172, 6173, 6174, 6175, 6176, 6177, 6178, 6179, 6180, 6181, 6182, 6183, 6184, 6185, 6186, 6187, 6188, 6189, 6190, 6191, 6192, 6193, 6194, 6195, 6196, 6197, 6198, 6199, 6200, 6201, 6202, 6203, 6204, 6205, 6206, 6207, 6208, 6209, 6210, 6211, 6212, 6213, 6214, 6215, 6216, 6217, 6218, 6219, 6220, 6221, 6222, 6223, 6224, 6225, 6226, 6227, 6228, 6229, 6230, 6231, 6232, 6233, 6234, 6235, 6236, 6237, 6238, 6239, 6240, 6241, 6242, 6243, 6244, 6245, 6246, 6247, 6248, 6249, 6250, 6251, 6252, 6253, 6254, 6255, 6256, 6257, 6258, 6259, 6260, 6261, 6262, 6263, 6264, 6265, 6266, 6267, 6268, 6269, 6270, 6271, 6272, 6273, 6274, 6275, 6276, 6277, 6278, 6279, 6280, 6281, 6282, 6283, 6284, 6285, 6286, 6287, 6288, 6289, 6290, 6291, 6292, 6293, 6294, 6295, 6296, 6297, 6298, 6299, 6300, 6301, 6302, 6303, 6304, 6305, 6306, 6307, 6308, 6309, 6310, 6311, 6312, 6313, 6314, 6315, 6316, 6317, 6318, 6319, 6320, 6321, 6322, 6323, 6324, 6325, 6326, 6327, 6328, 6329, 6330, 6331, 6332, 6333, 6334, 6335, 6336, 6337, 6338, 6339, 6340, 6341, 6342, 6343, 6344, 6345, 6346, 6347, 6348, 6349, 6350, 6351, 6352, 6353, 6354, 6355, 6356, 6357, 6358, 6359, 6360, 6361, 6362, 6363, 6364, 6365, 6366, 6367, 6368, 6369, 6370, 6371, 6372, 6373, 6374, 6375, 6376, 6377, 6378, 6379, 6380, 6381, 6382, 6383, 6384, 6385, 6386, 6387, 6388, 6389, 6390, 6391, 6392, 6393, 6394, 6395, 6396, 6397, 6398, 6399, 6400, 6401, 6402, 6403, 6404, 6405, 6406, 6407, 6408, 6409, 6410, 6411, 6412, 6413, 6414, 6415, 6416, 6417, 6418, 6419, 6420, 6421, 6422, 6423, 6424, 6425, 6426, 6427, 6428, 6429, 6430, 6431, 6432, 6433, 6434, 6435, 6436, 6437, 6438, 6439, 6440, 6441, 6442, 6443, 6444, 6445, 6446, 6447, 6448, 6449, 6450, 6451, 6452, 6453, 6454, 6455, 6456, 6457, 6458, 6459, 6460, 6461, 6462, 6463, 6464, 6465, 6466, 6467, 6468, 6469, 6470, 6471, 6472, 6473, 6474, 6475, 6476, 6477, 6478, 6479, 6480, 6481, 6482, 6483, 6484, 6485, 6486, 6487, 6488, 6489, 6490, 6491, 6492, 6493, 6494, 6495, 6496, 6497, 6498, 6499, 6500, 6501, 6502, 6503, 6504, 6505, 6506, 6507, 6508, 6509, 6510, 6511, 6512, 6513, 6514, 6515, 6516, 6517, 6518, 6519, 6520, 6521, 6522, 6523, 6524, 6525, 6526, 6527, 6528, 6529, 6530, 6531, 6532, 6533, 6534, 6535, 6536, 6537, 6538, 6539, 6540, 6541, 6542, 6543, 6544, 6545, 6546, 6547, 6548, 6549, 6550, 6551, 6552, 6553, 6554, 6555, 6556, 6557, 6558, 6559, 6560, 6561, 6562, 6563, 6564, 6565, 6566, 6567, 6568, 6569, 6570, 6571, 6572, 6573, 6574, 6575, 6576, 6577, 6578, 6579, 6580, 6581, 6582, 6583, 6584, 6585, 6586, 6587, 6588, 6589, 6590, 6591, 6592, 6593, 6594, 6595, 6596, 6597, 6598, 6599, 6600, 6601, 6602, 6603, 6604, 6605, 6606, 6607, 6608, 6609, 6610, 6611, 6612, 6613, 6614, 6615, 6616, 6617, 6618, 6619, 6620, 6621, 6622, 6623, 6624, 6625, 6626, 6627, 6628, 6629, 6630, 6631, 6632, 6633, 6634, 6635, 6636, 6637, 6638, 6639, 6640, 6641, 6642, 6643, 6644, 6645, 6646, 6647, 6648, 6649, 6650, 6651, 6652, 6653, 6654, 6655, 6656, 6657, 6658, 6659, 6660, 6661, 6662, 6663, 6664, 6665, 6666, 6667, 6668, 6669, 6670, 6671, 6672, 6673, 6674, 6675, 6676, 6677, 6678, 6679, 6680, 6681, 6682, 6683, 6684, 6685, 6686, 6687, 6688, 6689, 6690, 6691, 6692, 6693, 6694, 6695, 6696, 6697, 6698, 6699, 6700, 6701, 6702, 6703, 6704, 6705, 6706, 6707, 6708, 6709, 6710, 6711, 6712, 6713, 6714, 6715, 6716, 6717, 6718, 6719, 6720, 6721, 6722, 6723, 6724, 6725, 6726, 6727, 6728, 6729, 6730, 6731, 6732, 6733, 6734, 6735, 6736, 6737, 6738, 6739, 6740, 6741, 6742, 6743, 6744, 6745, 6746, 6747, 6748, 6749, 6750, 6751, 6752, 6753, 6754, 6755, 6756, 6757, 6758, 6759, 6760, 6761, 6762, 6763, 6764, 6765, 6766, 6767, 6768, 6769, 6770, 6771, 6772, 6773, 6774, 6775, 6776, 6777, 6778, 6779, 6780, 6781, 6782, 6783, 6784, 6785, 6786, 6787, 6788, 6789, 6790, 6791, 6792, 6793, 6794, 6795, 6796, 6797, 6798, 6799, 6800, 6801, 6802, 6803, 6804, 6805, 6806, 6807, 6808, 6809, 6810, 6811, 6812, 6813, 6814, 6815, 6816, 6817, 6818, 6819, 6820, 6821, 6822, 6823, 6824, 6825, 6826, 6827,*

# WEATHER

Received from MISSOULA WEATHER at 1330 Monday - 9/5/88

Discussion: High Pressure that has been over us is beginning

to break down ahead of several offshore weather systems

that will move through the region during the next few days. Red

flag is in effect for wind shift tonight and for stronger

west winds Tuesday with the frontal passage.

WEATHER:

OUTLOOK FOR TUESDAY

FRONTAL PASSAGE ABOUT MIDDAY

TEMPERATURES DOWN 10-15° F COOLER

RELATIVE HUMIDITY UP BY 10% +

WINDS WEST 10-20 MPH ACROSS THE RIDGES.

WEDNESDAY: STILL WINDY WITH NO RAIN IN SIGHT

FIRE BEHAVIOR FORECAST NO. 12NAME OF FIRE: Canyon Creek (West Zone)PREDICTION FOR: Day SHIFTFOREST: Lewis & ClarkSHIFT DATE: 9/6/88 (0600-1600)

TIME AND DATE

FORECAST ISSUED: 2200 9/5/88SIGNED: H.B. Fritz, Cahill  
FIRE BEHAVIOR OFFICERWEATHER SUMMARY

SEE ATTACHED FORECAST (PREDICTED WIND-1200 NOON)

FIRE BEHAVIORGENERAL:

The predicted winds today could trigger some hot puffs and cause spotting problems in many areas of the fire and could generate many new problems throughout the fire. The most critical period will be Tuesday through Wednesday. The wind direction and in some cases the velocity will be redirected by existing topography.

SPECIFIC:

The best information of when the wind will hit will be about Noon. This will be verified at the morning briefing as more information is gleaned from weather to the west of our fire are monitored.

Fire Behavior in Div A in the late afternoon of Monday 9/5/88 indicate that dense Lodgepole stands once fired off act more like San. Calif. Chaparral (Fuel Type 4) than what they are. Several runs are illustrated on the following page.

It is possible that if the forecasted wind strikes, most of the fuel types on the fire rates of spread, spotting potential and heat production levels will double triple or act like another fuel type rather than what they may be classified as, such as Lodgepole pine becoming Chaparral.

AIR OPERATIONS:

SMOKE in AM probably clearing out about 10:00.

SAFETY:

BE ALERT AND DON'T GET HURT. WATCH FOR Rates of Spread, spotting way beyond what would be expected if the

*Lodgepole Pine  
acting like Chaparral*

1 MODEL # 4  
2 IH 3.0  
3 10H 4.0  
4 100H 5.0  
6 WOOD 65  
7 MFWS 7 14 21  
8 SLP 45  
9 WDIR 180  
10 SDIR MAX

=====

	MFWS 7	14	21	
1	ROS	152	458	839
2	H/A	3147	3147	3147
3	FLI	8780	26444	48398
4	FL	29.3	48.7	64.3
5	RI	14251	14251	14251
6	EMS	6.0	13.2	20.4
7	MAXD	180	180	180

=====

1 MODEL # 4  
2 IH 3.0  
3 10H 4.0  
4 100H 5.0  
6 WOOD 65  
7 MFWS 14 21 28  
8 SLP 60  
9 WDIR 180  
10 SDIR MAX

=====

	MFWS 14	21	28	
1	ROS	430	810	1249
2	H/A	3147	3147	3147
3	FLI	24779	46733	7203
4	FL	47.3	63.3	77.2
5	RI	14251	14251	14251
6	EMS	12.6	19.9	27.0
7	MAXD	180	180	180

=====

### TYPICAL Fuel Type 8

1 MODEL # 8  
2 IH 3.0  
3 10H 4.0  
4 100H 5.0  
7 MFWS 7 14 21  
8 SLP 35  
9 WDIR 180  
10 SDIR MAX

=====

	MFWS 7	14	21	
1	ROS	4	8	8
2	H/A	225	225	225
3	FLI	15	35	35
4	FL	1.6	2.3	2.3
5	RI	1109	1109	1109
6	EMS	6.3	11.3	11.3
7	MAXD	180	180	180

=====

1 MODEL # 8  
2 IH 3.0  
3 10H 4.0  
4 100H 5.0  
7 MFWS 7 14 21  
8 SLP 50  
9 WDIR 180  
10 SDIR MAX

=====

	MFWS 7	14	21	
1	ROS	3	8	8
2	H/A	225	225	225
3	FLI	13	35	35
4	FL	1.5	2.3	2.3
5	RI	1109	1109	1109
6	EMS	5.6	11.3	11.3
7	MAXD	180	180	180

=====

### TYPICAL FUEL TYPE 8

1 MODEL # 8  
2 IH 2.0  
3 10H 3.0  
4 100H 4.0  
7 MFWS 7 14 21  
8 SLP 60  
9 WDIR 180  
10 SDIR MAX

=====

	MFWS 7	14	21	
1	ROS	3	10	10
2	H/A	243	243	243
3	FLI	13	46	46
4	FL	1.5	2.6	2.6
5	RI	1193	1193	1193
6	EMS	4.9	12.2	12.2
7	MAXD	180	180	180

=====



# Safety Message

Incident:

Canyon Creek Elk Branch

Date:

9-6-88

Time:

Day Shift

Major Hazards and Risks:

Erratic Fire Behavior

Fatigue

Narrative:

Today may be a very good burning day, some areas at the Fire could have erratic fire behavior with some high rates of spread.

Lets take a little extra time at the drop off points to have a good safety briefing with all of our people. Utilize the attached chart.

Today, know what your fire is doing at all times. post lookouts have escape routes and safety zones. Maintain good communications with all crewmembers at all times.

Should any helicopter water drops or retardant be used make sure drop zones are clear of people.

We all need to continue to stress safety to all workers on this fire.



TED TRELOT

Safety Officer

**F**ight fire aggressively, but provide for safety first.

**I**nitiate all action based on current and expected fire behavior.

**R**ecognize current weather conditions and obtain forecasts.

**E**nsure instructions are given and understood.

**O**btain current information on fire status.

**R**emain in communication with crew members, your supervisor, and adjoining forces.

**D**etermine safety zones and escape routes.

**E**stablish lookouts in potentially hazardous situations.

**R**etain control at all times.

**S**tay alert, keep calm, think clearly, act decisively.

**SAFETY BRIEFING/CHECKLIST TOPICS** The following checklists are intended to serve as personal safety reminders or short briefing topics for subordinates before going out on your assignment.

**Safety Practices Under Blowup Conditions**

- a. **Be Alert to Indicators of Sudden Weather Changes**
  - Trees crowning out inside fireline.
  - Smoldering fires picking up over large areas.
  - Approaching thunderheads with dark clouds beneath.
  - Presence of dust devils and whirlwinds.
  - Sudden calm.
  - High clouds moving fast in direction different from surface wind.
- b. **Be Aware of "Watch Out" Working Situations**
  - Building fireline down into canyon bottom where fire is burning.
  - Building fireline on hillside beneath fire.
  - Building fireline through heavy cover at considerable distance from fire.
  - Building fireline in country not seen in daytime.
- c. **Have Clear-Cut Plan of Action for Potential Blowup Conditions**
  - Give crew frequent rest periods.
  - Know location of rock slides, open hillsides, streams, and gravel bars.
  - Post lookout to give alarm when firefighters are working where they cannot directly observe danger points.
  - Consider possibility of retreating into burn.
  - When crossing fire edge into burn, have crew protect faces.
  - Do not travel in direction of spread unless certain a safe spot can be reached.

**Common Denominators of Fire Behavior on Tragedy Fires**

- a. Most incidents happen on the smaller fires or on isolated portions of larger fires.
- b. Most fires are innocent in appearance before the "flare-ups" or "blow-ups." In some cases, tragedies occur in the mop-up stage.
- c. Flare-ups generally occur in deceptively light fuels.
- d. Fires run uphill surprisingly fast in chimneys, gullies, and on steep slopes.
- e. Some suppression tools, such as helicopters or air tankers, can adversely affect fire behavior. The blasts of air from low flying helicopters and air tankers have been known to cause flare-ups.

## MEDICAL EMERGENCY PROCEDURES

### A. Minor walk-in injuries at Camp.

Treat at incident command post medical unit.

### B. Line Injuries

#### 1. If crew supervisor feels the injury will prevent crew member from continuing to end of shift procedure will be to:

- A. Apply First Aid as needed
- B. Contact Strike Team Leader and Division Group Supervisor.
- C. Contact Communications with details or relay to Medical Unit Leader and Safety Officer.
- D. If an EMT crew member is near, Medical Unit Leader can contact for primary exam.
- E. If patient is to be extricated from line due to traumatic or life threatening injuries, Medical Unit Leader to contact Augusta Information Station Dispatcher for Medivac Helicopter or ambulance arrangements. Extrication will be accomplished by most efficient transport available. Medical Unit Leader to evaluate and arrange for whatever treatment or steps necessary.

#### 2. After treatment, patient will be:

- A. Returned to duty if fit.
- B. Kept in camp if necessary.
- C. Transportation for further medical help.
- D. Released to home unit if unable to continue with regular duties.

## SAFETY MESSAGE

Crews. Know your escape routes and safety zones. Be sure you are wearing all required safety gear. If your boots are worn out, replace them. Drink sufficient fluids.

If working around dozers, watch out for: loose rolling material, trees that may be pushed over--keep a safe working distance at all times. Check for hazard trees in your work area. Listen and Stay Alert for burn out operations.

Camp. Keep all garbage cleaned up to help deter hornets and wasps. Use caution when drinking or eating. Several folks have been stung while eating.

Drivers. Yield to larger vehicles, be prepared to stop within half your sight distance. Learn where turnouts are located. Use chock blocks when parked.

L.E. Smith  
Safety Officer

<b>MEDICAL PLAN</b>	1. INCIDENT NAME <i>Canyon Creek Fire</i>	2. DATE PREPARED <i>9/4/88</i>	3. TIME PREPARED <i>1845</i>	4. OPERATIONAL PERIOD <i>ALL</i>				
5. INCIDENT MEDICAL AID STATIONS								
MEDICAL AID STATIONS	LOCATION	PARAMEDICS						
		YES	NO					
<i>Canyon Creek Base</i>	<i>Canyon Creek Base Camp</i>		<i>EMT's</i>					
6. TRANSPORTATION								
A. AMBULANCE SERVICES								
NAME	ADDRESS	PHONE	PARAMEDICS					
			YES	NO				
<i>Bicsak Ambulance Service</i>	<i>514-9th Ave Great Falls MT. 59405</i>	<i>727-6500</i>		<i>EMT's</i>				
<i>Augusta Volunteer</i>	<i>Augusta MT. 59410</i>	<i>466-5781</i>		<i>EMT's</i>				
<i>Health Flight ETA 2hr</i>	<i>St. Vincent Hospital Billings MT</i>	<i>1-800-538-4357</i>	<i>RN</i>	<i>EMT's</i>				
<i>Mercy Flight ETA 40min</i>	<i>1109-26 St So Great Falls MT. 59405</i>	<i>1-800-972-4000</i>	<i>RN</i>	<i>EMT's</i>				
<i>Alert One ETA 40min</i>	<i>Kalispell MT.</i>	<i>752-9797</i>	<i>RN</i>	<i>EMT's</i>				
B. INCIDENT AMBULANCES								
NAME	LOCATION	PARAMEDICS						
		YES	NO					
<i>Bicsak Ambulance</i>	<i>Canyon Creek Base Camp</i>		<i>EMT's</i>					
7. HOSPITALS								
NAME	ADDRESS	TRAVEL TIME		PHONE	HELIPAD		BURN CENTER	
		AIR	GRND		YES	NO	YES	NO
<i>Medical Deaconess Center</i>	<i>1109-26 St So. Great Falls MT. 59405</i>	<i>35-45 Min</i>	<i>1 1/2 hr</i>	<i>791-5200</i>	<i>V</i>			
<i>Columbus Hospital</i>	<i>500-15th Ave Great Falls MT. 59405</i>	<i>35-45 Min</i>	<i>1 1/2 hr</i>	<i>727-3333</i>	<i>V</i>			
<i>Teton County Memorial</i>	<i>Choteau MT.</i>	<i>15 Min</i>	<i>3/4 hr</i>	<i>466-5765</i>	<i>V</i>			
8. MEDICAL EMERGENCY PROCEDURES								
<i>Contact Medical Unit on Command Ch #7 Transmit 170.425</i>								
<i>See Attached Sheet Receive 168.075</i>								
<i>Health Flight - fixed wing to Choteau Airport</i>								
206 ICS 8/78		9. PREPARED BY (MEDICAL UNIT LEADER) <i>Gary B. Bunge</i>				10. REVIEWED BY (SAFETY OFFICER) <i>Don Richard</i>		

INCIDENT RADIO COMMUNICATIONS PLAN				1. INCIDENT NAME	2. DATE/TIME PREPARED	3. OPERATIONAL PERIOD DATE/TIME
				ELK C2/c3	9/5/88 2030	9/6/88 0600-1900
4. BASIC RADIO CHANNEL UTILIZATION						
SYSTEM/CACHE	CHANNEL	FUNCTION	FREQUENCY	ASSIGNMENT	REMARKS	
BIFC C2/c3	1	LINE Operations Tactical	168.050	DIV. A DIV. B DIV. G	CHANNEL 5 Rept. for DIV A & B CHANNEL 7 Rept. for other DIV.	
BIFC C2/c3	2	LINE Operations Tactical	168.200	DIV. C DIV. D DIV. E		
BIFC C2/c3	3	AIR TO GROUND	168.600	Air Operations & HELIBASE		
KINGS BIFC C2/c3	10	AIR GUARD	168.625	Emergency Use ONLY	These repeater freq. is for EMERGENCY USE however USE IS OK IF NO EMERGENCY EXISTS.	
BIFC C2/c3	5	Command Repeater	TX 170.450 RX 168.100	Fire Line to ICP		
BIFC C2/c3	7		TX 170.425 RX 168.075			
205 ICS 0/78				5. PREPARED BY (COMMUNICATIONS UNIT)		
				Richard L. Allred Comm. Unit		

# AIR OPERATIONS SUMMARY

CANYON CREEK INCIDENT

9-6-88 0700-1800

HELIBASES 2

FIXED WING BASES 1

## PERSONNEL AND COMMUNICATIONS

NAME	AIR/AIR FREQUENCY	AIR/GROUND FREQUENCY
AIR OPERATIONS DIRECTOR	BARRY KICKS 123.045 (EAST) 123.045 (WEST)	
AIR ATTACK SUPERVISOR	DAVE FRANKS 123.045 (EAST) MARVIN BUCKER 123.045 (WEST)	
HELICOPTER COORDINATOR	P. ANDERSON 123.045 (EAST) 123.045 (WEST)	
AIR TANKER COORDINATOR	GARY BUSHMADE: 123.045 (EAST) 123.045 (WEST)	
AIR SUPPORT (EAST SIDE)	Tim Johnson 123.045 (EAST) 123.045 (WEST)	
AIR SUPPORT (WEST SIDE)	DALE CAMPBELL 123.045 (EAST) 123.045 (WEST)	

## REMARKS (Spec. Instructions, Safety Notes, Hazards, Priorities)

- smoke poor visibility
- other aircraft/air tankers
- 12 hour duty day for pilot & 7 hours of flight time.
- 9191 (AIR RESTRICTIONS) ESTABLISHED
- DIVISION REQUIREMENTS
- EAST SIDE 1. DIV. B 2. DIV. C 3. DIV. D
- WEST SIDE 1. DIV. B 2. DIV. C 3. DIV. D

LOCATION/ FUNCTION	7. ASSIGNMENT	8. FIXED WING		9. HELICOPTERS		10. TIME		11. AIRCRAFT ASSIGNED	12. OPERATING BASE
		NO.	TYPE	NO.	TYPE	AVAILABLE	COMMITTEE		
Tactical	RECON, CARGO, CREW TRANSPORT			1	II	0830		01K 11R	ELK CREEK
Logistical	RECON, CARGO, CREW TRANSPORT MEDICAL			1	II	0800		76F	WEST ZONE
Tactical Support	AIR ATTACK	2	C635NA 182,310			0800 0800		422 09Q	LINCOLN Airport
Tactical	CARGO, CREW TRANSPORT WATER DELIVERY, MEDICAL			1	II	0830		766 349EH 183AH	ELK CREEK WEST ZONE
Logistical	RECON, CARGO, CREW TRANSPORT WATER DELIVERY			1	I	0900		45-917	ELK CR
Tactical	WATER DELIVERY			2	I	0730 0830		5-795D 234CH	WEST ZONE
13. TOTALS		2		6					

## CANYON CREEK FIRE

### CIVIL RIGHTS / EEO REPRESENTATIVE

The Civil Rights / EEO Representative for the fire is CHUCK TRIBE.

Chuck will be dividing his time between the Elk Creek and Kleinschmidt Flat camps.

He can be contacted through the Finance Officer in each camp.

Chuck is available to talk to any crew or crew member about Civil Rights or Equal Employment matters.

Any Overhead that is involved in or aware of any situation that could have Civil Rights or EEO implications should contact Chuck.

## Pay Clarification:

ALL Employees are paid for the time worked. Employees are NOT compensated for meal or sleep time. (exception: Lunch break for personnel on the fireline of an uncontrolled fire is not deducted.)

Contrary to rumors going around you are not on the payroll from the time you are called. Your pay begins when you load on the bus to be transported to the fireline and stops when you arrive back at Camp.

If you are placed in "Coyote Tactics" your pay stops when your crew is set off the line i.e. The Division Sup. says "That's it for today." As long as you are provided food and a bedroll you are NOT compensated for your down time.

One other item of confusion is the 5 hour sleep rule. The 5 hour sleep rule only applies to Structure fires.

Joyce Olson  
Finance Chief



Exhibit C

U.S. GOVERNMENT PRINTING OFFICE: 1987-795-468

GENERAL MESSAGE

TO: All Line Personnel  
FROM: Operators  
SUBJECT: Wind warning  
DATE: 9/6/88

MESSAGE: 25-35 mph winds are starting to surface and should reach the east side of the Continental Divide within 2 hours. Take all necessary precautions. Have gate areas identified & ready to deploy to. Confirm that you have received

SIGNATURE/POSITION

Frank Baden Ops Chief

REPLY

Div A ✓

B ✓

C ✓

D ✓

E ✓

All Div. Sups. confirm at 1125

DATE

9-6

TIME

1124

SIGNATURE/POSITION

R. Res Div.

\* \* \* \* \* NEWS RELEASE \* \* \* \* \*

Exhibit D

Aerial Fire Depot  
September 5, 1988  
Contact: Dale Dufour  
(406) 329-4920

FOR IMMEDIATE RELEASE

**WEATHER THREATENS TO WORSEN FIRE CONDITIONS**

MISSOULA, MT -- Prolonged hot and dry weather conditions have resulted in critically dry fuels throughout the forest, park, and rangelands of the Northern Rocky Mountains. A potential change in the current weather system has prompted Federal and State fire management officials, working in conjunction with the Weather Service, to issue a public alert for possible extreme fire behavior conditions on existing as well as on any new fires.

According to Jim Mann, USDA Forest Service Director of Aviation and Fire Management in Missoula and speaking on behalf of the officials, a weather system could result in potentially high winds and extreme burning conditions in Idaho, Montana, and the Greater Yellowstone Area. This change in burning activity appears to be most likely to occur between late this afternoon and Wednesday.

Mann stated that if the weather frontal passage develops as feared, winds could result in sustained runs on existing wildfires.

Officials from all land managing agencies are asking for the continuing cooperation of everyone to use caution and help prevent any new fires. Mann also said that firefighters and other people working on existing fires are being advised to stay alert for changing weather conditions and erratic fire behavior during this critical time.

# # #

NOTE: This news release is issued by the Multi-Agency Coordinating Group in Missoula, Montana. Members include: Forest Service, National Park Service, State of Montana, State of Idaho, State of North Dakota, Montana National Guard, Bureau of Indian Affairs, and Bureau of Land Management.

### FIRE BEHAVIOR ALERT

The Forest Lands of Idaho and Montana have been brought to a critical dry stage by the current hot and dry weather pattern. The breakdown of this persistent weather pattern by an approaching dry, cold-front on Monday and Tuesday will likely supply strong, sustained winds for several hours as the front passes. This could trigger extreme fire behavior such as running crown fires and long distance spotting on existing fires, or any new ignition source. The time period of critical concern will likely extend from Monday afternoon through Tuesday for north Idaho and western Montana, and Tuesday through Wednesday for extreme SW Montana and Yellowstone National Park.

The mixture of weather, dry fuel and existing wildfires are contributing to dangerous circumstances. Historically, similar conditions have resulted in catastrophic fires of short duration. The 1967 Sundance fire in northern Idaho, and the 1981 "Black Thursday" fires in Alberta are examples of what can happen.

Be sure to consult with your local, or incident fire weather forecaster for information concerning your local situation.

RICO FIRE BEHAVIOR SERVICE CENTER, 9/05 am

-- FIRE BEHAVIOR WARNING --

A DRY COLD-FRONT IS EXPECTED TO ARRIVE IN OUR AREA THIS AFTERNOON/EARLY EVENING FROM THE PACIFIC COAST. STRONG WINDS FROM THE SOUTHEAST-SOUTHWEST WILL PRECEDE THE FRONTAL PASSAGE, THEN SHIFT TO SUSTAINED MODERATE WINDS FROM THE WEST. WITH FUEL MOISTURES AT CRITICALLY LOW LEVELS BECAUSE OF THE PRESISTENT HIGH PRESSURE RIDGE AND SUBSIDENCE INVERSION, THE FIRE DANGER IS EXTREME. THE APPROACHING COLD-FRONT COULD TRIGGER EXTREME FIRE BEHAVIOR RESULTING IN RUNNING CROWN FIRES AND LONG DISTANCE SPOTTING IN FOREST FUELS. FIRES OF THIS NATURE HAVE HISTORICALLY BURNED TO THE NORTHEAST DURING SHORT (4-10 HRS), CATASTROPHIC BURNING PERIODS. VERY LITTLE, IF ANY MOISTURE IS EXPECTED WITH THIS SYSTEM. THERE ARE NO INDICATIONS THAT THIS WILL BE AN END OF THE SEASON EVENT.

THE NORTHWESTERN PORTION OF THE REGION WILL RECEIVE THE INITIAL BRUNT OF THE FRONT STARTING LATE THIS AFTERNOON. THE PROBABILITY OF A SHORT/CATASTROPHIC BURNING PERIOD IS GREATEST IN THIS AREA. FRONTAL INFLUENCE IN EXTREME SW MONTANA AND THE YELLOWSTONE ECOSYSTEM WILL BE ON TUESDAY AND WEDNESDAY. BE SURE TO CONSULT YOUR LOCAL, OR INCIDENT FIRE WEATHER FORECASTER FOR INFORMATION CONCERNING YOUR LOCAL SITUATION.

There are many ingredients coming together for this potentially dangerous situation, some are already in place, we are closely monitoring others to see if they will occur. As with all events involving weather, accurate prediction is difficult. Historically fires such as the n. Idaho Sundance fire in 1967 and the "Black Thursday" fires in Alberta in 1981 occurred under similar conditions. These conditions include; 1) a source of ignition (which we currently have many and strong winds many provide others), 2) heavy forest fuels, 3) a persistent high pressure ridge, 4) a subsidence inversion which dries the fuel bed over extensive areas for an extended period, 5) a cold-front with strong winds breaking the persistent high pressure system, 6) the cold-front approaching existing mountain ranges in a parallel direction so the frontal winds become oriented with north-south mountain valleys, 7) the development of low level jets, or reverse wind profiles with the approaching cold-front. Items 1-4 are in place, item 5 is beginning to occur and alignment at this time appears proper for item 6, and item 7 we will just have to wait and see. If this event does not happen, that would be great, however lets be prepared.

Fuel moisture recovery last night was again poor across most of the Region (fourth night in a row). Moderate recovery was reported from the Clearwater, NezPerce, Beaverhead, Gallatin National Forests, and the northwest portion of Yellowstone National Park. These areas with moderate recovery have had extensive smoke coverage which may be influencing the daily fluctuation in moisture content. Fire behavior reports from across the Region last night indicate that while active burning continued the fires were generally well behaved and in most cases were laid down below the smoke.

The subsidence inversion last night dropped to near surface elevations at all three sounding locations, strong temperature inversions also exists across the Region ranging in depth from 2-4,000'. Winds are currently light at the lower elevations (mostly 0-5 mph and variable in direction), but over Boise and Great Falls they begin to pick-up in velocity at approximately 10,000' (10 mph)

and above 18,000' they are 25-30 mph. Upper level zone of freezing temperatures begins at approximately 14,000' and has dropped since yesterday.

For the week ending August 27th of the 44 weather service stations used to compile the weekly precipitation report thirty-two received no measurable precipitation, and seven received 0.05" or less. No precipitation was reported from the SE, S-central, and SW divisions. Currently in terms of the growing season (April 1- August 27) most of western Montana is normal in precipitation received (90-110%) or above normal (110-130%), southwestern Montana and the eastern Rocky Mountain front is below normal (70-90%) with a broad finger in the same moisture range extending NE through Jefferson, Judith Basin, and into Phillips counties. Most of eastern Montana and the "Hi-line" are much below normal (<70%).

-- Chuck Bushey  
commercial 329-4850 (FTS 584)  
DG RICOPLANS:R01D

*Exhibit E*

DRAFT - 9/4/88 - 1800  
S.PALM/S.ROGERS

**FIREFIGHTER NOTIFICATION OF EXTREME FIRE SITUATION**  
**(See attached Fire Behavior Alert)**

1. **Shift Briefing and Pre-Shift Requirement:**

- a. Refamiliarize with F-I-R-E O-R-D-E-R-S and 18 WATCH OUT SITUATIONS.
- b. Refer to "Some Common Denominators of Fire Behavior on Tragedy or Near Miss Forest Fires".
- c. Plan safe zones, make them known.

Ensure that every firefighter, (includes camp personnel within potential fire caution areas), is equipped with prescribed P.P.E. to include: fire shelter, nomex clothing, hard hat, gloves and boots.

2. **During Shift Assignment and Announced Precautionary Period:**

- a. Maintain an ALERT and "HEADS UP" position throughout assignment.
- b. If the situations warrant--disseminate word to assigned firefighter personnel immediately.
- c. Confirm and maintain total accountability!
- d. Maintain communications--ON LINE, with fire service partners and cooperators/neighbors as appropriate.
- e. Document actions and events.

DRAFT - 9/4/88 - 1800  
S.PALM/S.ROGERS

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