Incident: Sapphire Complex

1. Incident Name:					2. Incident	: Numbe	er:			
Sap	ophire C	Complex					MT-LNF-(	01463		
3. Report Version (checone box): Initial X Update Final		Incident Co ganization: <b>N</b>			ency or	5. Incid Organiz	lent Manageme zation: <b>Type 2 Team</b>	nt	Date/Ti Date: <b>0</b>	ent Start ime: <b>7/24/2017</b> <b>518 MDT</b>
7. Current Incident Size or Area Involved (use unit label – e.g., "Acres" "Square Miles"): 43425 Acres	b. Tot Perce of Per that w	ained or oleted:	Monitor Confine	nt Descripnplex  /Natural ippressionrategy  e Protection	n Strategy Perce	25 10 5	Complexity Level: Single	From D 1215 M To Date 1715 M	ate/Tim <b>IDT</b> e/Time: (	e Period: e: <b>09/04/2017</b> <b>09/05/2017</b>
12. Prepared By: Print Name: <u><b>Glenn Palm</b></u>	gren, Sl	ITL(t)		13. Appr Print Nai	oved By: ne: <b>Roger</b>	Staats, I	<u>CT2</u>			
Date/Time Prepared: <b>09</b>	/05/201	17 1730 M	DT	Signatur	e:					
14. Date/Time Submitte <b>09/05/2017 1726 MDT</b>		ii ii	5. Primary RCC	Location	n, Organiza	ition, or	Agency Sent To	D:		
16. State: MT	17. Co <b>Granit</b>	unty / Paris <b>e</b>	h / Borou	gh:					18. City <b>Missou</b>	
19. Unit or Other: 20	. Incide	nt Jurisdict	- 1	1. lncide <b>/IT-LNF</b>	nt Locatio	n Owne	rship (if differer	nt than j	urisdicti	on):
22. Latitude/Longitude: Latitude: 46° 33' 46" Longitude: 113° 38' 3'  25. Short Location or Ai		23. US Nat Grid Zon x-Coordi y-Coordi	e: nate: nate:			Prir Tov 1/4	egal Description ncipal Meridian: wnship: <b>10N</b> Sec: of 1/4 Sec wint):	Principa Range:	16W	Section: <b>26</b>
25. Short Location of A	Cu DCS	cription (tis	t all arrect	ccu ui cas	or a refer	crice po	· · · · · · · · · · · · · · · · · · ·	اك ال	O I IVI C	ooramates.

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	,	Zone: Easting: Northing:
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27. Note any geospatial data available (indicate data format, content, and collection time information and labels): Information posted to http://ftp.nifc.gov/incident\_specific\_data/n\_rockies/2017\_fires/2017\_Sapphire\_Complex/GIS/

28. Observed Fire Behavior or Significant Events for the Time Period Reported (describe fire behavior using accepted terminology. For non-fire incidents, describe significant events related to the materials or other causal agents):

Active

Creeping

**Flanking** 

**Backing** 

Narrative:

There was growth observed on the south end of the fire in Division Z with flanking and backing behavior observed on open exposed slopes with fine fuels. In all other divisions, observed behavior was continued consumption of interior pockets of heavy fuels with occasional interior flare ups.

29. Primary Fuel Model, Materials, or Hazards Involved (hazardous chemicals, fuel types, infectious agents, radiation, etc):

Timber (Litter and Understory)
Closed Timber Litter
Short Grass (1 foot)

#### Narrative:

The fire continues to hold heat in all fuel types including 2007 re-burn areas on the north end of the fire. Division Z fire behavior is in a mix of fuels with grass, juniper, Douglas Fir, and some lodgepole beetle kill. Cooler temperatures and higher humidities decreased the burn period today.

30. Damage Assessment Information (summarize damage and/or restriction of use or availability to residential or commercial property, natural resources, critical infrastructure and key resources, etc):

Multiple homes, cabins, and commercial structures along Rock Creek and Willow Creek are threatened, as well as residential structures at the mouth of Brewster Creek and on Sliderock Mountain.

A. Structural Summary	B. # Threatened (up to 72 hrs)	C. # Damaged	D. # Destroyed
E. Single Residences	205	0	0
F. Multiple Residences	0	0	0
G. Mixed Commercial / Residential	25	0	0
H. Nonresidential Commercial Property	20	0	0
I. Other Minor Structures	65	0	6

31. Public Status Summary:				32. Responder Status Summary:			
C. Indicate the Number of Civilia	ns (Public	c) Below:		C. Indicate the Number of Respo	onders Be	low:	
	Previous Report Total	A. # this Reporting Period	B. Total # to- date		Previous Report Total	A. # this Reporting Period	B. Total # to- date
D. Fatalities	0		0	D. Fatalities	0		0
E. With Injuries/Illness	0		0	E. With Injuries/Illness	18	1	19
F. Trapped/In Need of Rescue	0		0	F. Trapped/In Need of Rescue	0		0

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	Previous Report Total	A. # this Reporting Period	B. Total # to- date		Previous Report Total	A. # this Reporting Period	B. Total # to- date
G. Missing	0		0	G. Missing	0		0
H. Evacuated	207	0	207	H. Evacuated	0		0
I. Sheltering in Place	3	0	3	I. Sheltering in Place	0		0
J. In Temporary Shelters	0		0	J. In Temporary Shelters	0		0
K. Have Received Mass Immunizations	0		0	K. Have Received Mass Immunizations	0		0
L. Require Immunizations	0		0	L. Require Immunizations	0		0
M. In Quarantine	0		0	M. In Quarantine	0		0
N. Total # Civilians (Public) Affected:	210	0	210	N. Total # Responders Affected:	18	1	19

#### 33. Life, Safety, and Health Status/Threat Remarks:

A red evacuation is in place for 47 residences and second homes in Rock Creek. This was triggered by the fire reaching a predetermined management action point. Some residents have chosen to shelter in place.

A pre-evacuation notice remains in effect for Upper Willow Creek, Brewster Creek, Rock Creek, and Sliderock Mountain. The pre-evacuation notice for Marshall Creek subdivision has been lifted.

The Beaverhead-Deerlodge National Forest has issued an area closure for lands South of I-90, West of State Highway 1 (excluding lands in South Fork Lower Willow Creek, Henderson Creek, Black Pine Ridge, Marshall Creek, and Smart Creek), North of Highway 348, and East of Sandstone Ridge. This includes the Upper Willow Creek and Harvey Creek areas.

The Brewster Creek road remains closed. In addition, the Rock Creek Road is closed to all traffic from Bitterroot Flat south to Cornish Gulch Road except for local residents who have not evacuated.

The Lolo National Forest has implemented an area closure including Forest lands east and north of Rock Creek Road, south of I-90 and east to the Forest Boundary with the Beaverhead-Deerlodge NF.

The Bureau of Land Management has implemented an area closure on BLM lands in the Upper Willow Creek, Ram Mountain and nearby areas.

The Montana DNRC has issued a temporary emergency closure of state trust lands in the Upper Willow Creek area in sections 5, 8, 16, 17, 21, and 28; T8N, R15W.

These closures are in place to protect the public from potential harm from wildfires and firefighting operations associated with the fires burning in the Rock

34. Life, Safety, and Health Threat
Management:

	Active?
A. No Likely Threat	
B. Potential Future Threat	х
C. Mass Notifications in Progress	
D. Mass Notifications Completed	х
E. No Evacuation(s) Imminent	
F. Planning for Evacuation	х
G. Planning for Shelter-in-Place	
H. Evacuation(s) in Progress	х
I. Shelter-in-Place in Progress	х
J. Repopulation in Progress	
K. Mass Immunization in Progress	
L. Mass Immunization Complete	
M. Quarantine in Progress	
N. Area Restriction in Effect	х
O. Road Closure	х
P. Trail Closure	х
Q. Area Closure	х

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Creek drainage.

Significant firefighter hazards unique to this incident include extensive snags due to drought and insect damage as well as abandoned mines in some divisions.

35. Weather Concerns (synopsis of current and predicted weather; discuss related factors that may cause concern):

Today: Dry conditions continued across the region. Temperatures were warmer today climbing into the lower 80s in valleys and lower to middle 70s along midslopes and ridgetops. Relative humidity fell into the teens in the lowest elevations and decreased to the upper 20s to around 30% higher up. Patchy fog in the valleys was observed with good to excellent morning RH recoveries in the upper 70s to almost 100% across lower valleys. General winds remained light out of the east but terrain influenced winds dominated.

Thursday through Saturday: Warmer, drier conditions are expected as high pressure builds over the region Thursday. Atmospheric moisture will increase ahead of a weather disturbance that could bring showers and thunderstorms to the area Friday and Saturday. However, widespread beneficial rainfall is not expected. Windy conditions are expected Saturday.

36. Projected Incident Activity, Potential, Movement, Escalation, or Spread and influencing factors during the next operational period and in 12-, 24-, 48-, and 72-hour time frames:

Minimal burning at night is anticipated due to a shortened burn period and cooler temperatures. Thermal belts 12 hours: may hold heat in some pockets of heavy fuel that can produce single tree torching. Spread potential is minimal and isolated to closed canopies on the northwest interior area of the fire. Good RH recovery is likely.

Continued warming and reduction in humidities to the lower teens will produce some activity earlier in the day.

High potential exists for group torching and spotting when smoke cover clears out. Short range spotting is anticipated to produce some growth in Division Z. Pockets of the old 2007 burn on the north end of the fire may spread slightly.

With continued dry conditions predicted and overnight humidity recovery poor, an active burn period should promote growth. Winds may switch direction with possible approaching thunderstorms. Storms could produce gusty winds that increase spotting distances. Group torching in areas with heavier fuel concentrations may cause both long and short range spotting in receptive fuels.

Continued warm temperatures are expected. Wind speeds are predicted to be out of the west and fairly light.

Fire activity may be somewhat reduced if higher humidities persist. Evening thunderstorms are possible with increased or variable winds. Some moderation of fire behavior may occur with an increase in cloud cover and higher humidities.

Anticipated after 72 hours:

37. Strategic Objectives (define planned end-state for incident):

Implement good risk management practices in order to provide for firefighter, other responder and public safety.

Ensure timely and accurate dissemination and coordination of information regarding fire-related activities is provided to the public, cooperators, elected officials and stakeholders.

Evaluate all management actions on a cost-versus-benefit basis.

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38. Currer	nt Incident Threat Summary and Risk Information in 12-, 24-, 48-, and 72-hour timeframes and beyond. Summarize
primary in	cident threats to life, property, communities and community stability, residences, health care facilities, other
critical inf	rastructure and key resources, commercial facilities, natural and environmental resources, cultural resources, and
continuity	of operations and/or business. Identify corresponding incident-related potential economic or cascading impacts:
12 hours:	The fires in the complex are burning in and around private inholdings and cabins. Little Hogback Fire continues to threaten subdivisions and businesses in Upper Willow Creek and Rock Creek. Values at risk include private lands, working ranches, residential and commercial structures, including outfitter and guide businesses and RV/cabin rental businesses. The Bonneville Power Administration electric transmission line could be impacted by the Sliderock and Goat Creek fires in the event of fire perimeter growth to the east.
24 hours:	The fires in the complex are burning in and around private inholdings and cabins. Little Hogback Fire continues to threaten subdivisions and businesses in Upper Willow Creek and Rock Creek. Values at risk include private lands, working ranches, residential and commercial structures, including outfitter and guide businesses and RV/cabin rental businesses. The Bonneville Power Administration electric transmission line could be impacted by the Sliderock and Goat Creek fires in the event of fire perimeter growth to the east.
48 hours:	The fires in the complex are burning in and around private inholdings and cabins. Little Hogback Fire continues to threaten subdivisions and businesses in Upper Willow Creek and Rock Creek. Values at risk include private lands, working ranches, residential and commercial structures, including outfitter and guide businesses and RV/cabin rental businesses. The Bonneville Power Administration electric transmission line could be impacted by the Sliderock and Goat Creek fires in the event of fire perimeter growth to the east.
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Anticipate	ed after 72 hours:
	Resource Needs in 12-, 24-, 48-, and 72-hour timeframes and beyond to meet critical incident objectives. List category, kind, and/or type, and amount needed, in priority order:
	Type 1 Crews: 2
	Type 2IA Crews: 2
12 hours:	EMTF: 2
	SEC1: 3
	SEC2: 4

48 hours:

24 hours:

72 hours:

Anticipated after 72 hours:

- 40. Strategic Discussion: Explain the relation of overall strategy, constraints, and current available information to:
- 1) critical resource needs identified above,
- 2) the Incident Action Plan and management objectives and targets,
- 3) anticipated results.

Explain major problems and concerns such as operational challenges, incident management problems, and social, political, economic, or environmental concerns or impacts.

The Little Hogback fire is being managed under a confine/contain strategy, with suppression actions primarily focused on the south side of the fire and commensurate with the values at risk and terrain difficulty. Mop up continues on the east side of the fire. With the Little Hogback fire continuing to grow in multiple directions and moving adjacent to and towards

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nearby structures in the Rock Creek drainage, Type 1 and Type 2IA crews are critical due to difficult terrain and the need for experienced resources. Supporting aviation assets continue to be critical to the success of operations. The EMTFs are needed to fill gaps in medical first responder coverage.

Suppression repair is beginning where practical on the Little Hogback Fire.

The Goat Creek and Sliderock fires, while mostly contained, still have some uncontrolled line and areas of heat. This is a low probability, high consequence situation. Fire spread is not expected in those areas but the extreme dryness of fuels requires attention to that possibility. Fire spread to the east could threaten private property and infrastructure, including Bonneville Power Authority electricity transmission lines. Suppression repair is in progress on the Goat Creek and Sliderock fires. A spike camp has been established on the Goat Creek fire to minimize firefighter driving exposure (fire is more than 2 hours from ICP).

Security personnel are critical to staff road closures to maintain public and firefighter safety.

41. Planned Actions for Next Operational Period:

Goat Creek: Continue mop-up, patrol, and suppression repair operations.

Sliderock: Monitor by air.

Little Hogback: Continue structure protection in North Rock Creek (from Wildrose to Stony Creek). Continue mop-up where safe and appropriate. Mitigate snag hazards where possible to facilitate mop-up. Continue to provide structure protection and firefighter presence in WUI areas near fire. Continue suppression repair on Division N where practical.

All Fires: Check fire spread using air resources in areas that are inaccessible to crews. Support initial attack within the area of the TFR.

42. Projected Final Incident Size/Area (use unit label – e.g., "Acres", "Square Miles"):

43. Anticipated Incident Containment or Completion Date: 10/31/2017

44. Projected Significant Resource Demobilization Start Date:

45. Estimated Incident Costs to Date: \$32,207,000.00

46. Projected Final Incident Cost Estimate:

47. Remarks (or continuation of any blocks above – list block number in notation):

Block 49: The "dozer" category includes 1 dozer, 4 excavators, 2 log trucks, and 1 tracked log loader. There are approximately 64 additional support personnel (non-209) assisting.

Incident public information: 406-540-3589 or SapphireComplexInfo@gmail.com

Incident Name	Suppression Strategy	Area	Area Measure	% Ctn/Comp	% Ctn/Comp Measure	Est. Cost to Date	Est. Comp Date	Perimeter
Goat Creek	Full Suppression	8,305	Acres	95	Percent	8,950,000	10/31/2017	100
Little Hogback	Confine	34,219	Acres	30	Percent	14,157,000	10/31/2017	60
Sliderock	Full Suppression	901	Acres	95	Percent	9,100,000	10/31/2017	100

49. Resources (summarize resources by category, kind, and/or type; show # of resources on top ½ of box, show # of personnel associated with resource on bottom ½ of box):

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48. Agency or Org		CR2IA	CRC	HEL1	HEL2	HEL3	ENG3	ENG4	ENG6	AMBL	DOZR	WTDT	WTDS	SKID	50. Ovhd	51. Tot Pers
417	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
AK	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
AZ	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
BIA	Rsrc	0	1	0	0	0	0	0	0	0	0	0	0	0		
DIA	Pers	0	10	0	0	0	0	0	0	0	0	0	0	0	5	15
BLM	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
DLIVI	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
CA	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
<u> </u>	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
со	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
E1	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
FL	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
FS	Rsrc	0	1	1	2	1	0	0	1	0	0	0	0	0		
	Pers	0	10	4	12	6	0	0	2	0	0	0	0	0	71	105
FWS	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
FWS	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
ID	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
טו	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
МІ	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
MI	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
МО	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
МО	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
мт	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
IVI I	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
NC	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
NC	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
NC	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
NG	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	25	25
NPS	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
INFO	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
NWS	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
PRI	Rsrc	1	0	0	0	0	5	6	10	1	8	2	9	6		

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PRI	Pers	20	0	0	0	0	15	18	29	2	13	2	9	11	3	122
<b>CD</b>	Rsrc	0	0	0	0	0	1	0	0	0	0	0	0	0		
SD	Pers	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
UT	Rsrc	0	0	0	0	0	0	1	0	0	0	0	0	0		
UT	Pers	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
3407	Rsrc	0	0	0	0	0	0	0	0	0	0	0	0	0		
wv	Pers	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
52. Total Resources		1	2	1	2	1	6	7	11	1	8	2	9	6		327

53. Additional Cooperating and Assisting Organizations Not Listed Above: Other cooperating agencies include the Granite County Sheriff's Office.