





WILSON MOUNTAIN FIRE- OLIVER BC

AUGUST 14TH 2015



INVESTIGATION REPORT

BY

DARRELL GREEN

FIRE SERVICE ADVISOR-OFFICE OF THE FIRE COMMISSIONER

NOVEMBER 12TH 2015

Introduction

ON AUGUST 16TH 2015 I WAS NOTIFIED BY FIRE SERVICE ADVISOR BOB COOPER OF THE REQUEST FOR ASSISTANCE WITH A WILDFIRE INVESTIGATION IN OLIVER. THE REASON FOR THE REQUEST WAS DUE TO STRUCTURES BEING INVOLVED. I WAS TO ASSIST WILDFIRE INVESTIGATOR STEVE GRIMALDI. I WAS TOLD THAT THE BC SAFETY AUTHORITY ELECTRICAL INSPECTOR WAS ALSO ATTENDING. I ARRIVED AT THE SCENE AT 466 WILSON MOUNTAIN RD ON AUGUST 17TH AT APPROXIMATELY 14.20HR. ON ARRIVAL THE SCENE WAS SECURE BY RCMP AND I HAD TO SHOW ID TO GAIN ACCESS TO THE PROPERTY. ONCE INSIDE THE PROPERTY I DROVE UP THE ROAD AND WAS MET BY WILDFIRE INVESTIGATOR STEVE GRIMALDI AND HIS PARTNER (NAME UNKNOWN). THEY PROCEEDED TO SHOW ME AROUND THE AREA BELIEVED TO BE WHERE THE FIRE ORIGINATED. I WAS ALSO SHOWN AN AERIAL PHOTO TAKEN AT 18:36 ON AUGUST 14TH SHOWING THE FIRE AT THAT TIME. PHOTO INCLUDED IN AREA OF ORIGIN SECTION.

BASED ON EYE WITNESS REPORTS AND A STATEMENT BY A FIRE DEPARTMENT PERSON THE FIRE DID NOT ORIGINATE IN ANY STRUCTURE THAT WERE LOCATED AT 466 WILSON MOUNTAIN ROAD AS THEY WERE STILL INTACT ON ARRIVAL BY FIRE DEPARTMENT PERSONNEL. KNOWING THIS THE ATTENTION AS TO THE FIRE CAUSE DETERMINATION AND LOCATION WAS FOCUSED TO THE OUTSIDE AREA IN AND AROUND THE PROPERTY AT 466 WILSON MOUNTAIN ROAD.

AS THE SIZE AND SPREAD OF THE FIRE AT THE INITIAL SIGHTING WAS RELATIVELY LARGE AND THE WEATHER CONDITONS AT THE TIME OF THE FIRE WERE EXTREME WITH HIGH WINDS, THE SCOPE OF THE INVESTIGATION WOULD INCLUDE A FEW DIFFERENT POSSIBLE THEORIES AS TO FIRE CAUSE.

THIS WOULD INCLUDE THE THEORY THAT POWER LINES IN CLOSE PROXIMITY TO 466 WILSON MOUNTAIN ROAD EITHER CAME DOWN OR PLAYED A PART IN STARTING THE FIRE. THIS THEORY IS BELIEVED BY THE ^{s.22}.....

THERE IS THE THEORY THAT THE FIRE WAS CAUSE BY HIGH WINDS AND INCORRECTLY INSTALLED ELECTRICAL EQUIPMENT. THIS THEORY IS A RESULT OF THE REPORT OF FINDINGS BY THE ELECTRICAL INSPECTOR RICHARD FRICK WITH THE BC SAFETY AUTHORITY. HIS REPORT IS ATTACHED.

THERE IS ALSO THE THEORY THAT A LIGHTENING STRIKE MAY HAVE CAUSED THE FIRE. THIS THEORY WAS A RESULT OF THUNDERSTORMS IN THE AREA DAYS LEADING UP TO THE FIRE AND THE POSSIBILITY THAT A SMOLDERING FIRE ERUPTED ONCE THE WINDS PICKED UP.

THEN THERE IS THE THEORY OF A CARELESSLY DISCARDED CIGARETTE. THE BRUSH AND GROUND COVER IN THE AREA WAS EXTREMELY DRY DUE TO LACK OF RAINFALL AS WELL AS VERY HOT AND DRY TEMPERATURES FOR AN EXTENDED PERIOD OF TIME.

Area Details

THE PROPERTY AT 466 WILSON RD IS OWNED BY s.22 . IN ADDITION TO THE HOME s.22
s.22 ALSO CONTAINED

VARIOUS VEHICLES, TRANSPORT TRAILERS, AND PIECES OF EQUIPMENT AND AN ASSORTMENT OF
OTHER ITEMS. THERE WAS ALSO A MOBILE HOME TRAILER WHICH WAS s.22
s.22

. THE SEMI TRAILERS ON THE PROPERTY APPEARED TO HAVE BEEN
USED AS STORAGE FILLED MOSTLY WITH METAL OBJECTS OF VARIOUS KINDS. ALL OF THE TRAILERS/
STRUCTURES ON THE PROPERTY WERE COMPLETELY DESTROYED BY THE FIRE.

THE PROPERTY ALSO CONTAINED AN AREA THAT APPEARED TO BE AN OUTDOOR WORK STATION. THIS
AREA INCLUDED A WELDING MACHINE AND VARIOUS OTHER EQUIPMENT AND WORK BENCH. IT WAS
NOTED THAT IN THIS PARTICULAR AREA THAT THERE WAS AN ELECTRICAL SUBPANEL THAT HAD BEEN
MOUNTED TO A TREE. EVIDENCE FOUND IN THAT LOCATION POINTED TO THIS PANEL BEING USED TO
SUPPLY POWER TO THE WORK AREA. IT WAS ALSO DETERMINED THAT THE POWER TO THIS SUB PANEL
ORIGINATED FROM A MAIN SERVICE PANEL THAT WAS LOCATED AT THE MOBILE HOME TRAILER
OCCUPIED BY s.22 THAT MAIN SERVICE PANEL WAS LOCATED BELOW THE SMART
METER. THE POWER TO THE METER AND MAIN PANEL CAME FROM A POWER POLE LOCATED A SHORT
DISTANCE AWAY. THE POWER POLE HAD A TRANSFORMER ON IT AND ONLY SERVICED THE MOBILE
HOME TRAILER PANEL.

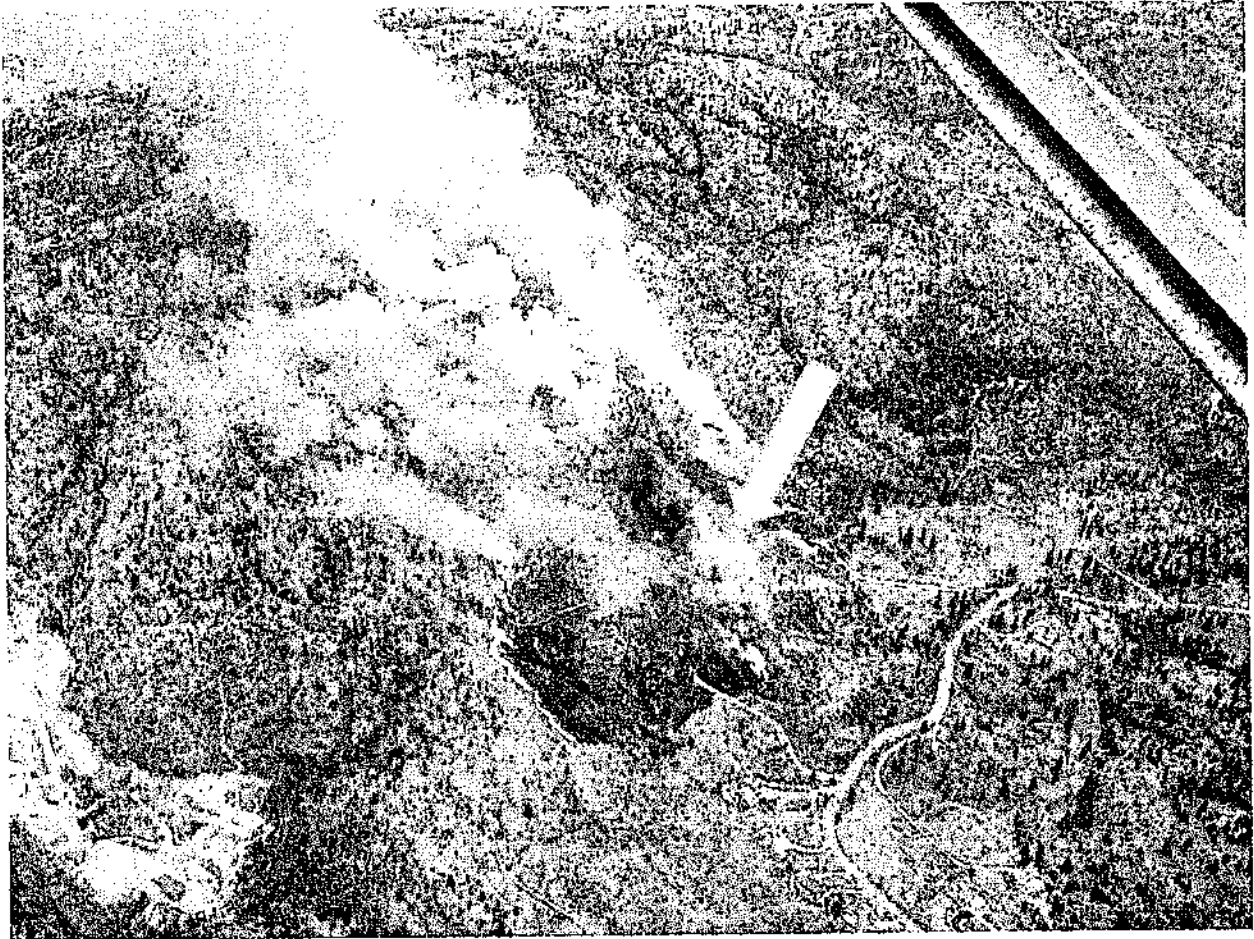
Area of Origin

UPON ARRIVAL AT THE SCENE I WAS INFORMED BY STEVE GRIMALDI OF THE BC WILDFIRE
BRANCH THAT THE AREA WE WERE PRESENTLY AT 466 WILSON MOUNTAIN RD WAS THE AREA
OF ORIGIN BASED ON WHAT THEY WERE FINDING FOR BURN PATTERNS. (MR. GRIMALDI'S
REPORT WAS NOT AVAILABLE AT THE TIME THIS REPORT WAS FILED)

MR. GRIMALDI PROVIDED AN AERIAL PHOTO OF THE SCENE TAKEN AT APPROXIMATELY 18.30
ON AUGUST 14TH. (SEE NEXT PAGE). THIS PICTURE SHOWS THE PROPERTY AT 466 WILSON
MOUNTAIN RD AND SURROUNDING AREA INVOLVED IN THE FIRE. THE PICTURE ALSO SHOWS
THE SMOKE FROM THE FIRE AND THE LEADING EDGE OF THE FIRE TRAVELING IN A NORTH TO
SOUTH DIRECTION.

WEATHER REPORTS RECEIVED FROM ENVIRONMENT CANADA FROM THEIR CLOSEST WEATHER
STATION IN OSOYOOS HAD WIND GOING IN A NORTH- NORTHEAST DIRECTION AND SPEEDS
GOING FROM 5 KM/H AT 15.00HR TO 17KM/H AT 16.00HR BACK TO 7KM/H AT 1700HRS AND
THEN TO 23KM/H AT 1800 HRS. IT WAS LATER DETERMINED BY THE METEOROLOGIST FOR
ENVIRONMENT CANADA THAT THE CONVECTIVE PROGNOSIS FOR AUGUST 14TH MENTIONS
WIND GUSTS UP TO 65KM/H.

BASED ON EYE WITNESS ACCOUNTS AND THE PHOTO PROVIDED IT WAS DETERMINED THAT THE FIRE HAD OCCURRED SOMEWHERE IN THE IMMEDIATE VICINITY OF 466 WILSON MOUNTAIN RD.



AERIAL VIEW OF FIRE AT APPROXIMATELY 18.30PM ON AUGUST 14TH 2015. THE ARROW SHOWS THE APPROXIMATE LOCATION OF THE ENTRANCE s.22

INVESTIGATION OF THEORIES

POWER LINE THEORY

IT IS BELIEVED BY THE s.22
s.22 THAT THE FIRE WAS A RESULT OF A POWER LINE COMING DOWN DUE TO THE HIGH WINDS AT THE TIME.

THIS THEORY WAS INVESTIGATED AT LENGTH BY ME AND ELECTRICAL INSPECTOR RICHARD FRICK. WHEN I ARRIVED AT THE LOCATION ON AUGUST 17TH THE DISTRIBUTION LINE THAT WAS LOCATED IN CLOSE PROXIMITY TO 466 WILSON MT RD WAS ON THE GROUND. I REQUESTED THE PRESENCE OF A REPRESENTATIVE FROM FORTIC BC TO ATTEND TO THE SCENE. THE FOREMAN FOR THE SOUTH OKANAGAN OPERATIONS MR TODD ROMANO ATTENDED. HE ADVISED ME THAT THE LINES CAME DOWN AFTER THE FACT AND THAT NO LINE HAD COME DOWN THAT STARTED THE FIRE AND THEY HAD COME DOWN AS A RESULT OF THE FIRE. MR ROMANO HAD ATTENDED TO THE SITE THE FOLLOWING MORNING OF THE FIRE SATURDAY AUGUST 15TH AND DID NOT OBSERVE ANY LINE ON THE GROUND NOR WAS ANY POLE DOWN AT THAT TIME EITHER.

DURING THE INVESTIGATION I LEARNED THAT JUST BEFORE THE CALL HAD COME IN FOR THE FIRE ON WILSON MOUNTAIN RD THAT A FIRE HAD BEEN REPORTED NEAR MIKES AUTO BODY IN TOWN. IT TURNED OUT THAT THAT FIRE WAS A RESULT OF A BREAKER TRIPPING AND THAT RESULTED IN A GRASS FIRE.

ON SEPT 22ND I RETURNED TO OLIVER TO MEET WITH MR ROMANO ALONG WITH ELECTRICAL INSPECTOR RICHARD FRICK TO ASK FURTHER QUESTIONS. MR FRICK TOOK THE LEAD IN ASKING QUESTION DUE TO HIS ELECTRICAL BACKGROUND. AT THE TIME OF THE MEETING MR FRICK HAD REQUESTED ACCESS TO THE LOGS FOR THE DISTRIBUTION LINE AS WELL AS ACCESS TO THE SMART METER LOGS FOR s.22 MR FRICK WAS GOING TO USE THE POWERS GRANTED TO HIM TO REQUEST THAT INFORMATION. AT A LATER DATE AS THE REQUEST WAS NOT MADE BY MR FRICK I MADE THE REQUEST FOR THAT INFORMATION. I WAS CONTACTED BY FORTIS BC LAWYER MONIC PRATCH AND WAS ADVISED THAT IN ORDER TO GET ACCESS TO THE SMART METER LOGS FROM s.22 PROPERTY I WOULD HAVE TO GET HIM TO SIGN A RELEASE FORM. THE RELEASE FORM WAS SIGNED BY s.22 ON OCT 26TH 2015

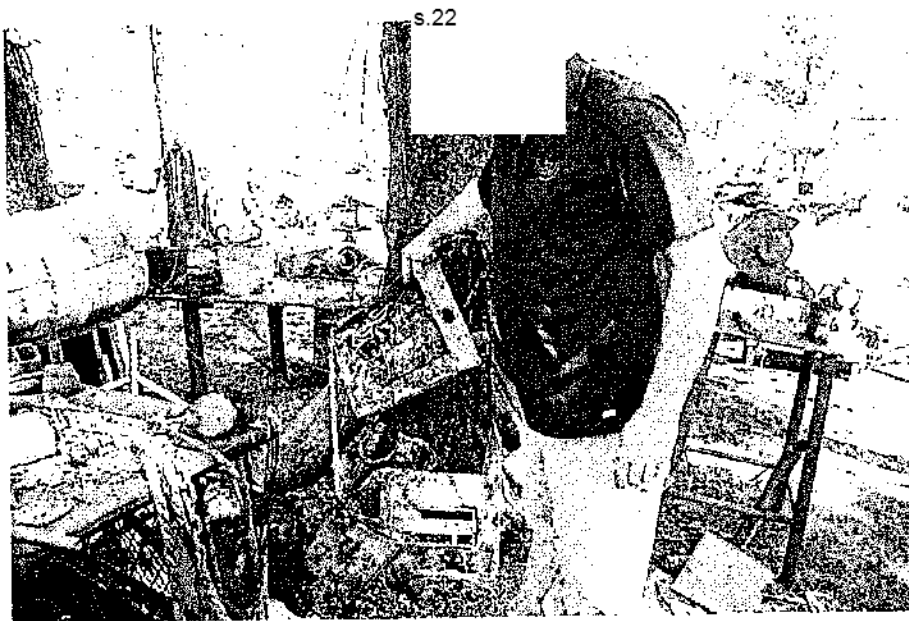
SUBSEQUENTLY I RECEIVED A REPORT FROM FORTIS ON NOVEMBER 3RD REGARDING THE EVENTS OF AUGUST 14TH. THE REPORT WAS ON THEIR TRANSMISSION LINE KNOWN AS 43L AND THE DISTRIBUTION LINE DB1 THAT RAN ADJACENT TO THE PROPERTY AT 466 WILSON MOUNTAIN ROAD. ACCORDING TO FORTIS FORMAN TODD ROMANO THERE WAS NO EVENT ON THE TRANSMISSION LINE KNOWN AS 43L. IF THERE HAD BEEN THE POWER WOULD HAVE GONE OUT FAR AND WIDE. THE DISTRIBUTION LINE HOWEVER HAD 3 EVENTS THAT DAY. THE FIRST ONE AT 17.42 WHICH CAUSED THE FUSED DISCONNECT TO OPEN BEHIND MIKES AUTO WHICH RESULTED IN A SMALL GRASS FIRE AND THEN ANOTHER FAULT AT 18.09 AND A THIRD AT 21.15. FORTIS WAS UNABLE TO DETERMINE THE CAUSE OF THESE FAULTS.

MR ROMANO'S EMAIL STATED THAT HE VERIFIED THAT WHEN HE WAS ON SITE AT 05.15 SATURDAY MORNING THE 15TH OF AUGUST THAT THE DISTRIBUTION SYSTEM WAS INTACT AND NO POLES OR LINES WERE ON THE GROUND. HE STATED THAT THERE WAS VISIBLE DAMAGE TO THE POLES 43L26 AND 43L27 AND THE TRANSMISSION X-ARM HAD SWUNG DOWN AT 43L27 BUT THE LINE WAS STILL SUPPORT BY THE OTHER POLES AND WAS NOT ON OR NEAR THE GROUND. (SEE ATTACHED COMMUNICATION)

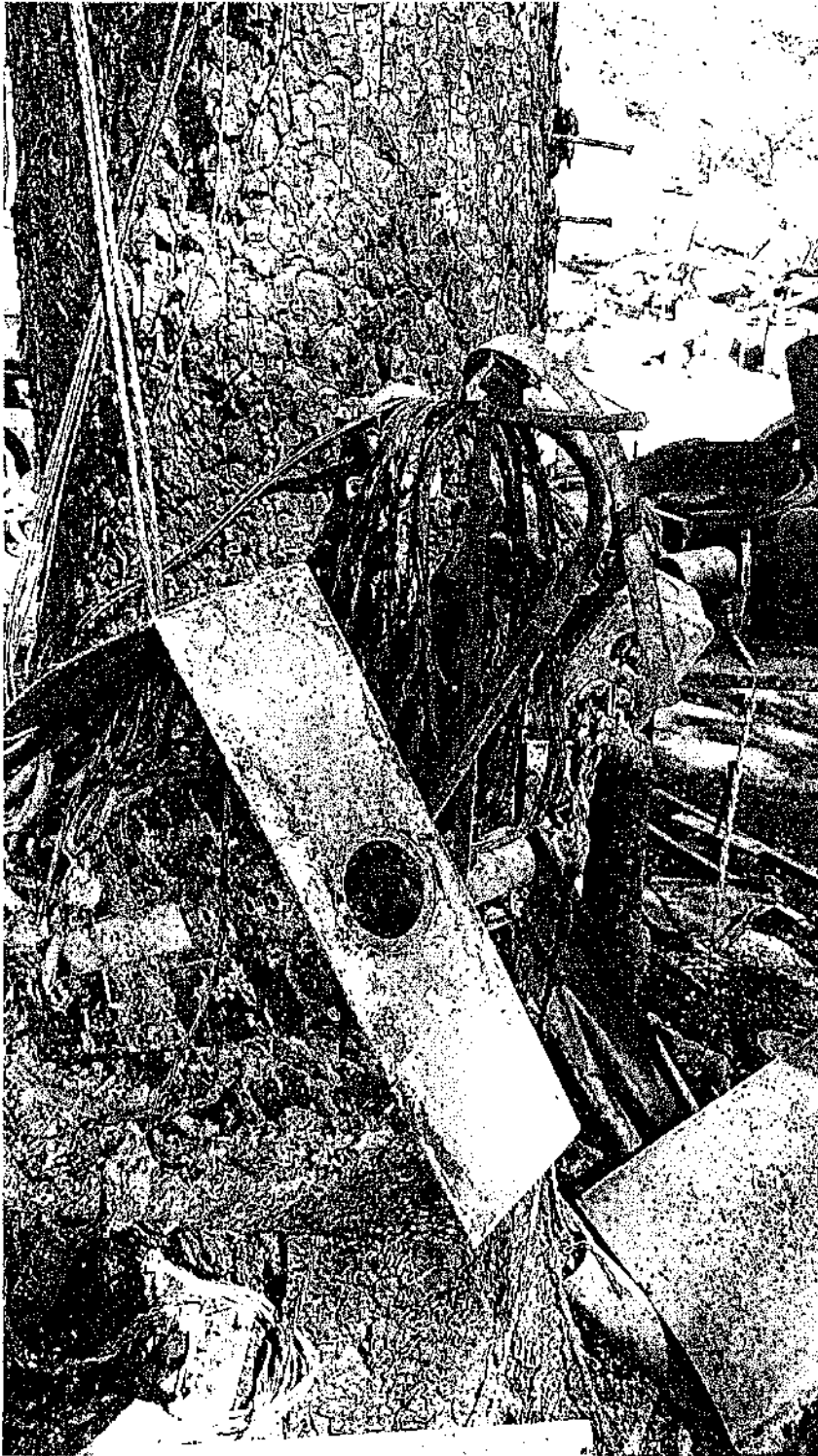
PRESENTLY THERE IS NO EVIDENCE INDICATING THAT THE FIRE LOCATED AT 466 WILSON MOUNTAIN ROAD WAS A RESULT OF A TRANSMISSION LINE OR DISTRIBUTION LINE THAT HAD COME DOWN AS NO EVIDENCE WAS FOUND TO SUPPORT THAT THEORY. I QUESTIONED MR ROMANO AS TO THE LIKELY HOOD THAT A TREE OR A BRANCH HAD MADE CONTACT WITH THE LINE AND HE SAID THAT IT WAS NOT LIKELY AS THERE ARE NO TREES FOUND TO HAVE DONE THAT. THE LINES HAD COME DOWN AFTER THE POLES HAD FAILED FROM THE FIRE.

IMPROPER ELECTRICAL EQUIPMENT INSTALLATION THEORY

BASED ON THE TECHNICAL EXPERTISE OF BC SAFETY AUTHORITY ELECTRICAL INSPECTOR RICKARD FRICK HIS REPORT INDICATED THAT THERE WERE SEVERAL NON CONFORMING ELECTRICAL INSTALLATIONS FOUND AT VARIOUS LOCATIONS THROUGHOUT THE PROPERTY. THE FIRST IN THE AREA HE CALLED IN HIS REPORT THE "OPEN WORKSHOP" SEEN IN THE PICTURE BELOW. THE SUB PANEL FOUND IN THAT AREA WAS LOCATED MOUNTED TO A TREE. WIRES EXITED FROM THAT PANEL AND WENT UP THE TREE AND ACROSS TO ANOTHER TREE APPROXIMATELY 15-20 FT AWAY AND THEN DOWN TO THE GROUND. FROM THERE THEY WENT BELOW GROUND FOR APPROXIMATELY 15' BEFORE COMING BACK UP TO THE MAIN SERVICE PANEL. THIS PANEL WAS BEING FED BY THE SMART METER. (see corresponding pictures below)



Picture of Large Combination panel attached to tree. Panel cover was on at the time of the fire. Note complete devastation to interior of panel

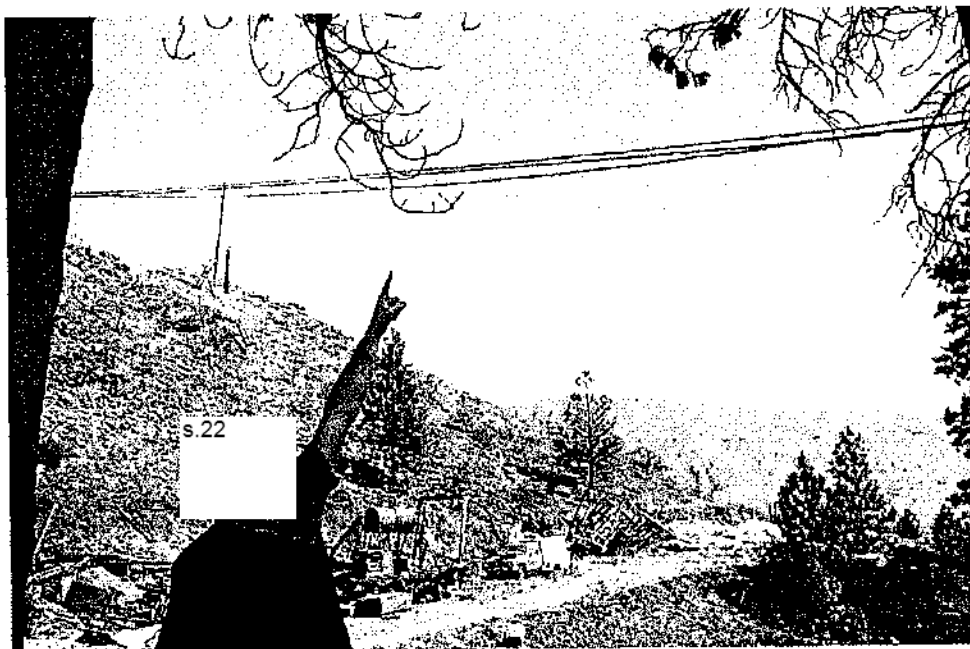


Picture of combination panel located at the tree. Panel cover removed which revealed complete devastation inside the panel.

Note the receptacle to the right that is still partially intact.



Picture of wires exiting the subpanel and traveling up the tree



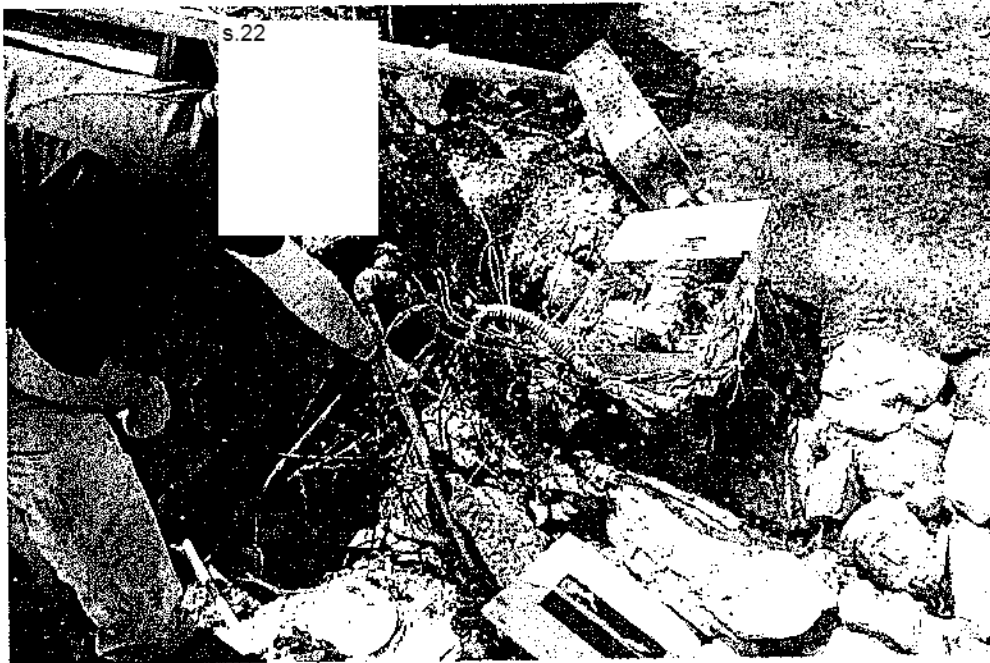
Picture of wires strung between the trees.



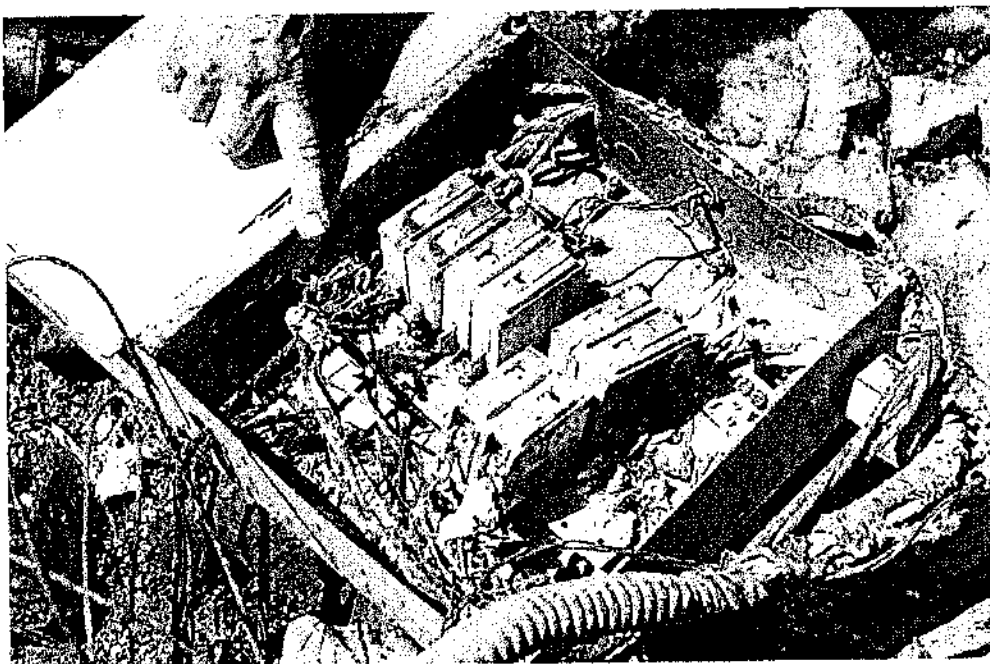
Picture of wires traveling down the tree opposite to tree with the panel



Picture of wires entering the ground.



Picture of wires exiting the ground and going to the main service panel



Picture of main service panel showing the location of the breaker that had wires attached to it that is believed to have fed the sub-panel located at the tree. **Note that breaker had completely disintegrated compared to the other breakers in the panel**

IT WAS NOTED IN MR FRICKS REPORT THAT THERE WERE VARIOUS MULTIPLE UNSAFE CONDITIONS IDENTIFIED THROUGHOUT THE PROPERTY. SEE ATTACHED COMPLETE REPORT OF FINDINGS FROM ELECTRIC SAFETY OFFICER RICHARD FRICK WITH THE BC SAFETY AUTHORITY.

I HAD REQUESTED BY WAY OF A RELEASE AUTHORIZATION FORM SIGNED BY PROPERTY OWNER s.22
s.22 A REPORT ON THE SMART METERS THAT WERE LOCATED ON THE PROPERTY. (SEE ATTACHED)

I WAS INFORMED THAT s.22 HAD TWO METERS THAT WERE OPERATING ON AUGUST 14TH. ONE METER WAS LOCATED AT THE HOME OF s.22 AND THE OTHER METER WAS LOCATED AT THE MOBILE HOME TRAILER ON THE PROPERTY. I WAS INFORMED THAT THE METER AT s.22 RESIDENCE STOPPED RECORDING AT 19.05 PM, HOWEVER THE SMART METER AT THE MOBILE HOME TRAILER STOPPED MUCH EARLIER AT 16.39PM. THIS METER WAS ALSO CONNECTED TO THE OUTDOOR SHOP AREA VIA THE MAIN SERVICE PANEL.

Lightning Strike Theory

AS THERE HAD BEEN THUNDERSTORM ACTIVITY IN THE DAYS LEADING UP TO THE FIRE I CONTACTED ENVIRONMENT CANADA TO INVESTIGATE THE POSSIBILITY THAT LIGHTNING WAS THE SOURCE OF IGNITION.

I COMMUNICATED WITH METEOROLOGIST MATTHEW MACDONALD WITH ENVIRONMENT CANADA AND LYN MAINWARING WITH NATURAL METEOROLOGICAL SERVICE OF CANADA. BOTH ASSISTED WITH INVESTIGATED THE POSSIBILITY OF LIGHTNING STRIKES ON WILSON MOUNTAIN. IT WAS CONCLUDED THAT ALTHOUGH THERE WERE LIGHTNING STRIKES ON AUGUST 12TH AND 13TH ON WILSON MOUNTAIN NONE OF WHICH WERE CLOSE ENOUGH TO 466 WILSON MOUNTAIN ROAD TO INDICATE THAT LIGHTNING CONTRIBUTED TO THE FIRE ON AUGUST 14TH. THEREFORE AT THIS TIME LIGHTNING IS NOT BEING CONSIDERED AS THE SOURCE OF IGNITION.

COMMUNICATIONS WITH METEOROLOGISTS REGARDING LIGHTNING IS ATTACHED.

CARELESS DISCARDING OF SMOKING MATERIAL

AS THE CONDITIONS WERE SUCH (HOT AND VERY DRY) AND THAT THERE WERE SEVERAL INDIVIDUALS THAT WERE VISITING 466 WILSON MOUNTAIN ROAD PRIOR TO THE FIRE, THE POSSIBILITY OF A CARELESSLY DISCARDED CIGARETTE HAS TO BE CONSIDERED.

SUCH A THEORY IS EXTREMELY DIFFICULT TO INVESTIGATE AND UNDER THE CIRCUMSTANCES OF THIS FIRE IT WOULD BE NEAR IMPOSSIBLE TO DETERMINE AND IS THEREFORE ONLY MENTIONED AS A POSSIBLE THEORY.

STATEMENTS

ONE OF THE EARLY EYE WITNESSES TO THE FIRE WAS §.22 . I REQUESTED A STATEMENT FROM §.22 IN HIS STATEMENT §.22 HAD OBSERVED THE FIRE AT 18.16 ON THE SOUTH FACING SLOPE ADJECENT TO TRANSMISSION LNE 43L. §.22 STATED THAT THE FIRE WAS TRAVELING UP SLOPE TOWARDS 43L. HE IMMEDIATELY CONTACTED TCC TO HAVE 43L DE-ENERGIZED. **STATEMENT ATTACHED.**

I REQUESTED STATEMENTS FROM THE RESPONDING FIRE CREWS. BY THE TIME THE FIRE CREWS ARRIVED THE FIRE HAD SPREAD RAPIDLY. ONE CREW THAT ARRIVED AT 466 WILSON MOUNTAIN ROAD HAD TO RETREAT VERY RAPIDLY TO AVOID BEING TRAPPED AT THAT LOCATION. THE CONSENSUS BEING THAT THE FIRE WAS COMING UP OVER THE TOP OF THE MOUNTAIN AND THEN CHANGING DIRECTIONS TO STARTING HEADING SOUTH. IT WAS NOTED THAT NONE OF THE CREWS NOTICED ANY POWER LINES ON THE GROUND. IT WAS NOTED BY RESPONDING FIREFIGHTER RICHARD SIMMONS THAT CERTAIN AREAS WITHIN §.22 PRPOERTY HAD NOT YET BECOME INVOLVED IN THE FIRE. **(STATEMENTS ATTACHED)**

I SPOKE TO §.22 HE PROVIDED A STATEMENT AS TO THE TIME THAT THE POWER WENT OUT TO HIS PROPERTY AND SEEING FLAMES SHORTLY THERE AFTER. UPON LEAVING HIS PROPERTY HE NOTICED THAT THE LINES WERE HANGING LOW. **(STATEMENT ATTACHED)**

I RECEIVED A STATEMENT AND PHOTOS FROM I §.22 WAS OUTSIDE §.22 WHEN HE HAPPENED TO NOTICE A SUDDEN BURST OF FLAMES ON THE HILLSIDE. HE WAS LOCATED QUITE A DISTANCE AWAY AND THEREFORE UNABLE TO DETERMINE WHAT HAD HAPPENED OR WHAT WAS BURNING. **(STATEMENT AND PICS ATTACHED)**

I SPOKE TO I §.22 AS I WAS TOLD HE HAD A VIDEO AND PICTURES THAT WERE TAKEN WHEN THE FIRE WAS FIRST NOTICED. I VIEWED THE VIDEO WHICH IS AN APPROXIMATE 10 SEC CLIP SHOWING THE FIRE ON WHAT APPEARS TO BE ON THE HILL SIDE. THE VIDEO IS HARD TO VIEW AS IT IS SHOT SIDEWAYS. IT DOES SHOW AREAS OF THE PROPERTY WHICH HAD NOT YET BEEN ENGAGED IN THE FIRE. PICTURE SUPPLIED ALSO SHOWS §.22 WALKING THROUGH UNBURNED PROPERTY **(PICTURES AND STATEMENT ATTACHED)**

I RECEIVED A BACKGROUND AND A STATEMENT OF INFORMATION FROM FORTIS REPRESENTATIVE TODD ROMANO. IN HIS STATEMENT OF INFORMATION HE CONFIRMED THAT THERE WAS NO EVENT OR FAULT OF ANY KIND ON THE TRANSMISSION LINE 43L ON AUGUST 14TH AND THAT 43L WAS DE-ENERGIZED AT 18.22 ON AUGUST 14TH DUE TO THE FIRE. HE ALSO CONFIRMED THAT WHEN HE ARRIVED ON SCENE AT 05.15 AUGUST 15TH THAT THE DISTRIBUTION SYSTEM WAS INTACT AND THAT THERE WAS NO DAMAGE TO ANY OF THE DISTRIBUTION CONDUCTORS OR ASSOCIATED HARDWARE. THERE WAS HOWEVER VISIBLE DAMAGE TO THE POLES AT STRUCTURE 43L26 AND 43L27.

HE CONFIRMED THAT ON AUGUST 14TH THEY HAD AN EVENT BEHIND MIKES AUTO AT 17.42 WHICH RESULTED IN A SMALL GRASS FIRE. THE REASON FOR THAT EVENT REMAINS UNKNOWN.

THERE WERE ALSO TWO FAULT TRIPS ON THE DISTRIBUTION LINE AT 18.09 AND AGAIN AT 21.15. THE REASONS FOR THOSE TRIPS ARE ALSO UNKNOWN. HOWEVER THE 18.09 FAULT COINCIDES WITH THE TIME §.22 REPORTS THE POWER GOING OUT AT HIS RESIDENCE AT §.22 AND WITH A MINUTE OF THAT §.22 SEE'S FLAMES SHOOTING 20 TO 30 FEET IN THE AIR IN THE VICINITY OF THE POWER POLE OR POSSIBLY UNDER THE POWER LINES AND CALLS #5555. THE TIME IS 18.10 ACCORDING TO §.22 PHONE LOG.

I REQUESTED INFORMATION FROM FORTIS ON THE TWO AMR SMART METERS THAT WERE LOCATED AT §.22 PROPERTY. ONE WAS LOCATED AT §.22 HOUSE AND THE OTHER WAS LOCATED AT THE MOBILE HOME TRAILER. THAT INFORMATION WAS PROVIDED. THE METER THAT SUPPLIED §.22 HOME STOPPED FUNCTIONING AT 19.05 WHICH WOULD BE CONSISTANT WITH THE FIRE DESTROYING THE METER, HOWEVER THE METER THAT SUPPLIED THE MOBILE HOME AS WELL AS THE SUBPANEL LOCATED AT THE OPEN WORK AREA STOPPED FUNCTIONING MUCH EARLIER AT 16.39. I HAD ASKED MR ROMANO TO CONFIRM THE INSTALLATION DATE AND MAKE OF THE SMART METER. I WAS TOLD IT WAS A ITRON MODEL C2SOD AND IT WAS INSTALLED JUNE 5TH OF THIS YEAR.

ON NOV 5TH I REQUESTED THE TIMES FROM SURROUNDING AMR METERS TO COMPARE TO THE METERS ON §.22 PROPERTY. I WAS ADVISED BY FORTIS THAT THEY WERE UNABLE TO CHECK THAT FAR BACK

CONCLUSION

AFTER REVIEWING ALL OF THE INFORMATION I HAD AT MY DISPOSAL I HAVE COME TO THE FOLLOWING.

ON AUGUST 14TH AT APPROXIMATELY 18.10 A FIRE WAS DISCOVERED ON WILSON MOUNTAIN ROAD AT THE PROPERTY OF s.22

I INVESTIGATED THE POSSIBILITY THAT THE FIRE WAS CAUSED BY A POWER LINE HOWEVER THERE WAS NO EVIDENCE FOUND THAT WOULD LEAD TO THAT CONCLUSION.

I ALSO INVESTIGATED THE POSSIBILITY OF A LIGHTENING STRIKE. THE INFORMATION I RECEIVED FROM ENVIRONMENT CANADA METEOROLOGISTS DOES NOT SHOW ANY LIGHTENING STRIKES IN THE VICINITY OF 466 WILSON MOUNTAIN RD ON THE DAY OF THE FIRE OR THE DAYS LEADING UP TO THE FIRE.

I DID CONSIDER THE POSSIBILITY OF A CARELESS DISCARDED CIGARETTE HOWEVER THERE WAS EVIDENCE FOUND AT THE SCENE THAT HAD A MUCH HIGHER LIKELIHOOD OF PROBABILITY.

WITH THE ASSISTANCE OF ELECTRICAL INSPECTOR RICHARD FRICK I INVESTIGATED THE POSSIBILITY OF THE FIRE BEING CAUSED BY ELECTRICAL MEANS. MR FRICKS REPORT INDICATED THAT EVIDENCE WAS FOUND ON THE PROPERTY OF s.22

s.22 AT VARIOUS LOCATIONS THROUGHOUT THE PROPERTY WHICH RESULTED
s.22 IN PARTICULAR WAS AN AREA THAT APPEARED TO BE AN
"OPEN WORKSHOP" AREA WHICH HAD A WORKBENCH, WELDER AND VARIOUS OTHER PIECES OF EQUIPMENT. FOUND ATTACHED TO A TREE IN THAT AREA WAS IDENTIFIED BY MR FRICK AS A LARGE COMBINATION PANEL. THERE WAS EVIDENCE FOUND THAT THE PANEL WAS FEEDING VARIOUS PIECES OF EQUIPMENT. THIS TYPE OF PANELS INTENDED USE IS IN A DRY ENVIRONMENT PROTECTED FROM THE ELEMENTS. THE PANEL WAS BEING SUPPLIED TO THE MAIN COMPARTMENT AREA WITH STRANDED CONDUCTORS MEASURED AS APPROXIMATELY #10 AWG COPPER. THOSE CONDUCTORS WERE FOUND GOING UP THE TREE THAT THE PANEL WAS ATTACHED TO THEN WRAPPED AROUND THE TREE AND THEN STRUNG FROM THAT TREE TO ANOTHER TREE THEN WRAPPED AROUND THAT TREE AND THEN ATTACHED TO THE FACE OF THE TREE WITH STAPLES AND THEN INTO THE GROUND.

MR FRICKS EXAMINATION OF THE COMBINATION PANEL FOUND THAT THE INTERIOR CONTENTS OF THE PANEL WERE INCINERATED. HE CONCLUDED THAT THE NEAR COMPLETE DESTRUCTION OF THE CONTENTS OF THE PANEL INDICATES A VERY HIGH TEMPERATURE FOR AN EXTENDED PERIOD OF TIME. MR FRICK ALSO NOTED IN HIS REPORT THAT IMMEDIATELY ADJACENT TO THE PANEL IN THE TREE HE FOUND VARIOUS OTHER PIECES OF ELECTRICAL EQUIPMENT OF SIMILAR TYPES OF MATERIAL IN PARTICULAR A RECEPTACLE. (Picture of receptacle in report). HE NOTED THAT THE PLASTICS OF THE RECEPTACLE WERE HEAVILY DAMAGED BUT STILL INTACT AND THAT THESE PLASTICS ARE OF SIMILAR TYPES THAT BREAKERS ARE CONSTRUCTED OF.

MR FRICK CONCLUDED THAT THE PRESENCE OF PLASTICS LOCATED IN THE RECEPTACLE THAT WAS STILL PARTIALLY INTACT AND LOCATED ADJACENT TO THE LARGE PANEL IN THE TREE IS INDICATIVE TO A PANEL

THAT SUSTAINED DAMAGE BY HEAT THAT WAS INTERNAL IN THE ENCLOSURE. HE WENT ON TO SAY THAT THIS WOULD OCCUR WITH A FAILURE TO DISRUPT THE ENERGY BEING FED INTO THE PANEL.

MR FRICK LOCATED THE SOURCE OF THE FEEDER INTO THE PANEL THAT WAS LOCATED IN THE TREE WHICH WAS FROM THE MAIN SERVICE PANEL LOCATED AT THE MOBILE HOME TRAILER. THIS WAS DETERMINED BY THE SIZE OF THE CONDUCTORS THAT WERE FOUND FEEDING THE PANEL IN THE TREE WHICH MATCHED THE SIZE OF CONDUCTORS THAT WERE LOCATED IN THE MAIN SERVICE PANEL. AFTER REMOVING THE COVER OF THE MAIN SERVICE PANEL THERE WAS EVIDENCE OF AN EVENT INSIDE. ONE BREAKER WITHIN THAT PANEL WAS MORE HEAVILY DAMAGED THAN THE OTHERS. EXAMINATION OF THE MAIN SERVICE PANEL MR FRICK FOUND FOUR 2 POLE BREAKERS INTACT WITH REMAINS OF 1 CONDUCTOR ON EACH ON THEM AND NOTED THE REMAINS OF A 2 POLE BREAKER NEARLY INCINERATED THAT HAD 2 CONDUCTORS ON EACH TERMINAL. HE FOUND THAT ONE CONDUCTOR WAS CONSISTENT WITH THE SIZE AND STRANDING OF THE CONDUCTOR IN THE TREE, THE OTHER CONDUCTOR WAS A LARGER SIZE. MR FRICK FOLLOWED THE SAME SIZE CONDUCTOR AS THE PANEL IN THE WORK AREA AND FOUND THAT IT WENT INTO THE GROUND ADJACENT TO THE STRUCTURE. MR FRICK WAS NOT ABLE TO FIND A SIMILAR CONDUCTOR IN ANY OTHER LOCATION ON THE PROPERTY. HE CONCLUDED THAT THE PANEL IN THE TREE WAS BEING FED BY THE MAIN SERVICE PANEL LOCATED AT THE MOBILE HOME TRAILER.

TO CONCLUDE HIS REPORT MR FRICK INDICATED THAT THE CONDUCTORS FEEDING THE PANEL WOULD HAVE BEEN SUSCEPTIBLE TO MECHANICAL DAMAGE DUE TO THE MOVEMENT OF THE TREES FROM THE WIND AND MECHANICAL DAMAGE FROM THE TENSION ON THE CONDUCTORS WOULD HAVE EXTENDED INTO THE PANEL COMPARTMENT FROM THE CONDUCTORS BEING PULLED IN THE TREES. THE PANEL ATTACHED TO THE TREE SHOWED SIGNS OF HIGH HEAT ON THE INSIDE. THE SERVICE PANEL WERE THE CONDUCTOR FROM THE PANEL IN THE TREES APPEARED TO CONNECT TO, THAT BREAKER WAS INCINERATED WHILE THE OTHER 4 BREAKERS IN THAT PANEL REMAINED INTACT.

THE MAIN SERVICE PANEL IS ATTACHED TO THE SMART METER. FORTIS RECORDS INDICATE THAT AT 16.39 THE SMART METER STOPPED FUNCTIONING TO THAT METER. THAT WOULD BE A 1.5 HOURS PRIOR TO THE FIRST SIGHTING OF FIRE ON THE PROPERTY AT APPROXIMATELY 18.10.

PRESENTLY THE ONLY PHYSICAL EVIDENCE THAT WAS OBTAINED AT THE SCENE OF THE FIRE WOULD POINT TO AN EVENT HAPPENING WITH THE ELECTRICAL SERVICE THAT WAS LOCATED AT THE MOBILE HOME TRAILER WHICH ALSO SERVICED THE OPEN SHOP AREA. HOWEVER WITH ALL THE PERSONS AT THE SCENE AT THE TIME OF THE FIRE INCLUDING FIRE DEPARTMENT PERSONNEL I AM UNABLE TO FIND ANYONE THAT SAW FIRE IN THAT SPECIFIC AREA AT THAT TIME NOR DO I HAVE ANY PICTURES TAKEN AT THE TIME THAT WOULD INDICATE THAT THE FIRE STARTED IN THAT AREA THEREFORE AT THIS TIME I AM UNABLE TO DETERMINE WITH A HIGH LIKELYHOOD THE CAUSE OF THE FIRE AND THEREFORE IT REMAINS UNDETERMINED.

Report of findings for the site of BC Wild Fire K50619-2015

Richard Frick, Electrical Safety Officer
British Columbia Safety Authority
Suite 5, 1101 Main Street Penticton BC V2A 5E6
richard.frick@safetyauthority.ca
250.488.0686

On Sunday, August 16, 2015 at 13:00, I was contacted by the Provincial emergency co-ordinator and requested to attend the scene of an active forest fire in Oliver British Columbia. There was a team of BC Wildfire investigators that required expertise in electrical equipment. I attended the scene of the fire know as K50619-2015, located off Wilson Mountain Road and on the property of s.22. I met with Steve Grimaldi, the lead investigator with BC Wildfire. Steve had questions about electrical equipment located at the scene. I spent two hours at this site with Steve determining what electrical equipment was installed throughout the property.

Evidence of both conforming and non conforming electrical installations was found at various locations throughout the property. Some intact and undamaged by fire, others nearly completely destroyed by fire. Electrical equipment was found in several pits in the ground. Conductors of various types and sizes were located strung between trees. Receptacles were found attached to conductors appearing out of the ground in several locations. Various multiple unsafe conditions were identified throughout the property.

I located a utility supply service that had been connected to a consumer supply service on a detached structure. The detached structure was destroyed in the fire and the remnants of a main service were easily found at the edge of the debris. In the debris, two sub panels could be easily seen.

In the area of an open workshop, I found the remains of a large combination panel hanging from a tree.

I returned to the site on Tuesday, August 18, 2015 10:00 at the request of the investigator from the BC fire Commissioner's office. We performed a walk through the site and reviewed the same areas I examined during my first attendance on the site on August 16, 2015.

During this second walk though, I performed a closer examination of the electrical equipment located on the site. I began with the area identified by the Wildfire investigators as the fire origin location. This area is the open workshop where a large combination panel was found hanging from a tree.

The panel's intended use is in a dry environment, securely fastened to a structure, protected from the elements, typically found as the main panel in a house. I identified this panel as 32 breaker position panel with a service compartment. This panel was being supplied to the main compartment area with stranded conductors measured as approximately a #10 AWG copper (heat damaged). There was evidence of this panel feeding various pieces of equipment including welders, receptacles, and other undetermined connections. No evidence of protection from the elements was found at the panel. The method of supporting the panel was not determined. The load on the panel was not determined. The size of the branch circuit breakers or the main breaker (if any) could not be determined as the interior of the panel was destroyed.

I examined the feeder conductors going into the main compartment of the panel. These conductors were single stranded conductors, insulated, but not part of a cable assembly or suitable for free air hanging. These conductors were subsequently found going up the tree the panel was found hanging off, twisted around the tree and strung from that tree to another tree overhead about 8 feet off the ground then wound around again and then attached to the face of the second tree with common fencing staples, ran down the tree with these staples and into the ground adjacent to the tree.

No mechanical protection was found for these conductors, no supporting means was found for these conductors.

I removed the panel cover and found the contents of this panel were incinerated. The only materials left were ashes, molten metals, remnants of the bus bars and copper conductors. The near complete destruction of the contents of the panel indicate a very high temperature for an extended period of time. Immediately adjacent to this panel hanging in the tree, various other pieces of electrical equipment of similar types of materials were found. A receptacle in a junction box was located attached to a conductor and hanging from the same tree within 10 centimetres of the panel. The plastics of the receptacle were heavily damaged but still intact. These plastics are of a similar type that breakers are constructed of.

The presence of plastics associated with electrical equipment adjacent to the panel lead me to conclude that the panel had sustained damage by heat that was internal in the enclosure.

This would occur with a failure to disrupt the energy being fed into the panel.

I continued to survey the site to find the source of the feeder into that panel. I began examining the main consumer service panel. The panel showed evidence that one breaker position was more heavily damaged than the others. I removed the cover to expose the contents. I found four 2 pole breakers intact with remains of 1 conductor each on them and the remains of a 2 pole breaker nearly completely incinerated that had 2 conductors on each terminal. One conductor was consistent with the size and stranding of the panel found in the tree, the other was a larger size conductor.

I followed the same sized conductor as the panel in the work area and found it went into the ground adjacent to the structure.

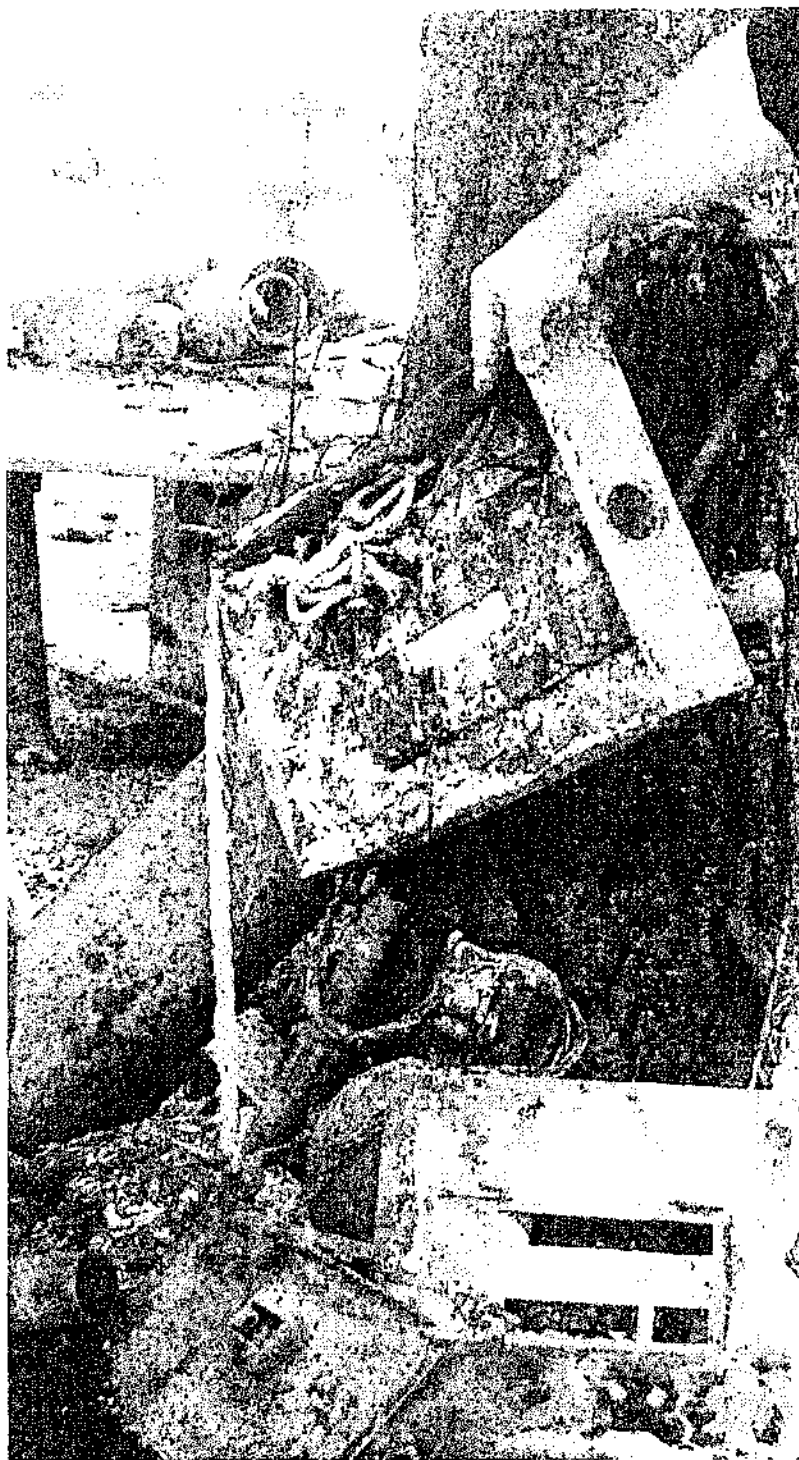
I searched the property for another two hours in an attempt to locate any other locations where that size and type of conductor could be found. I found none.

To conclude:

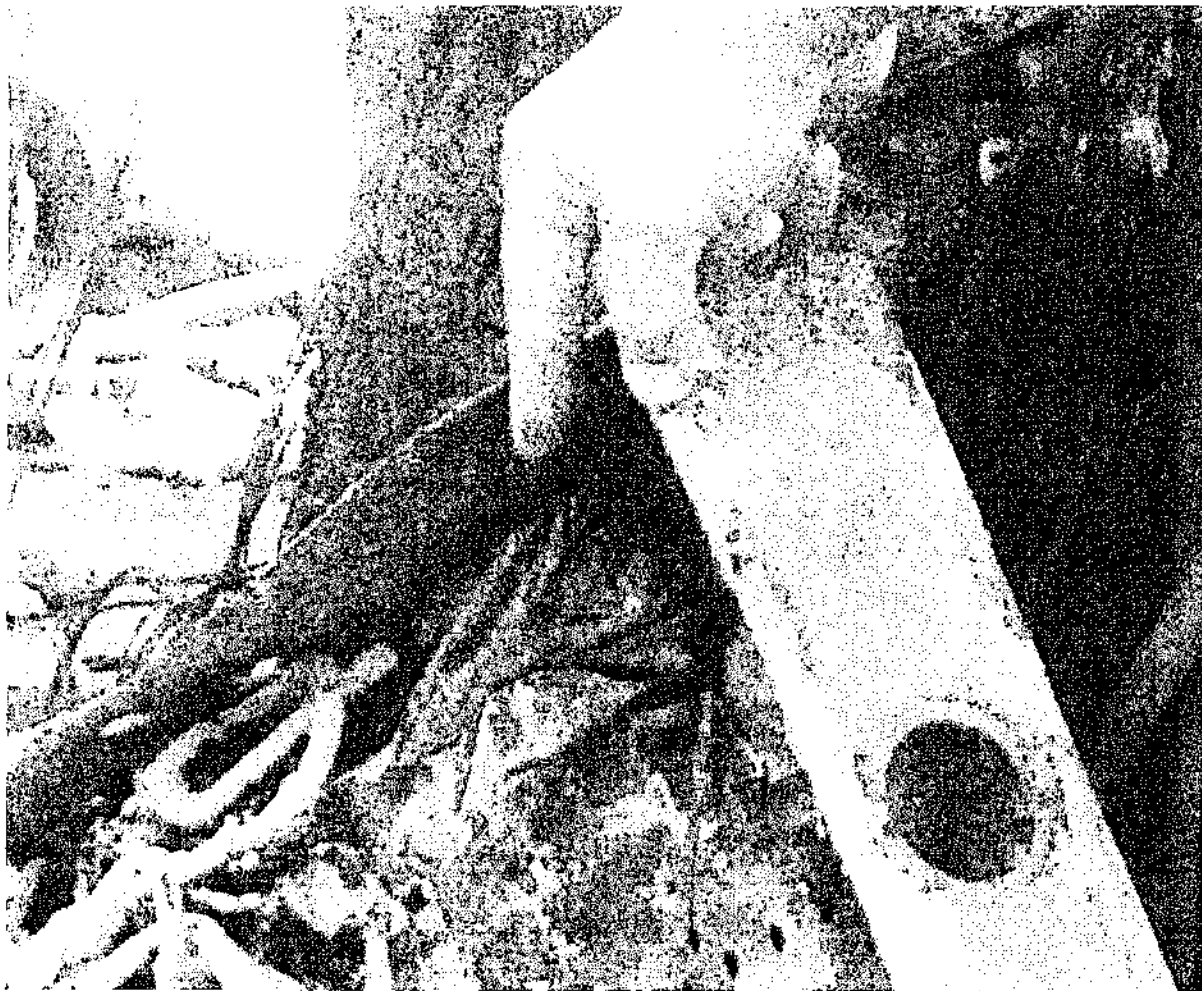
A combination panel was found in an work shop area open to the elements, connected to conductors unsuitable for a free air hanging application. The load demand on the panel breakers and conductor are not confirmed. Evidence of high heat and extended energy duration exist in that panel. The conductors feeding that panel would have been susceptible to mechanical damage due to movement of the trees from wind, mechanical damage from tension on the conductors would have extended into the panel compartment from the conductors being pulled in the trees.

The panel appears to have been fed from the main service at the structure via underground, the conductors are not a suitable type for direct earth burial and lack mechanical protection.

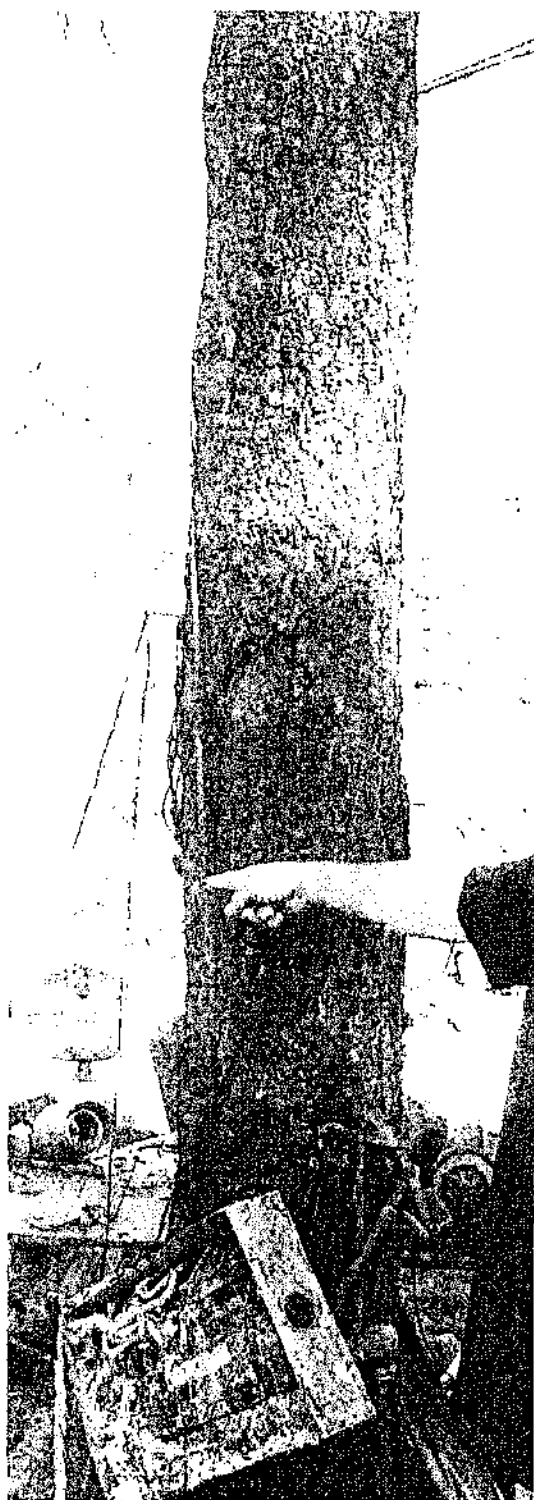
The same size and type of conductor was found attached to the remnants of a 2 pole breaker in the branch circuit area of the combination panel. This breaker shows signs of heat damage higher than any other devices in that panel. This breaker has multiple loads attached.



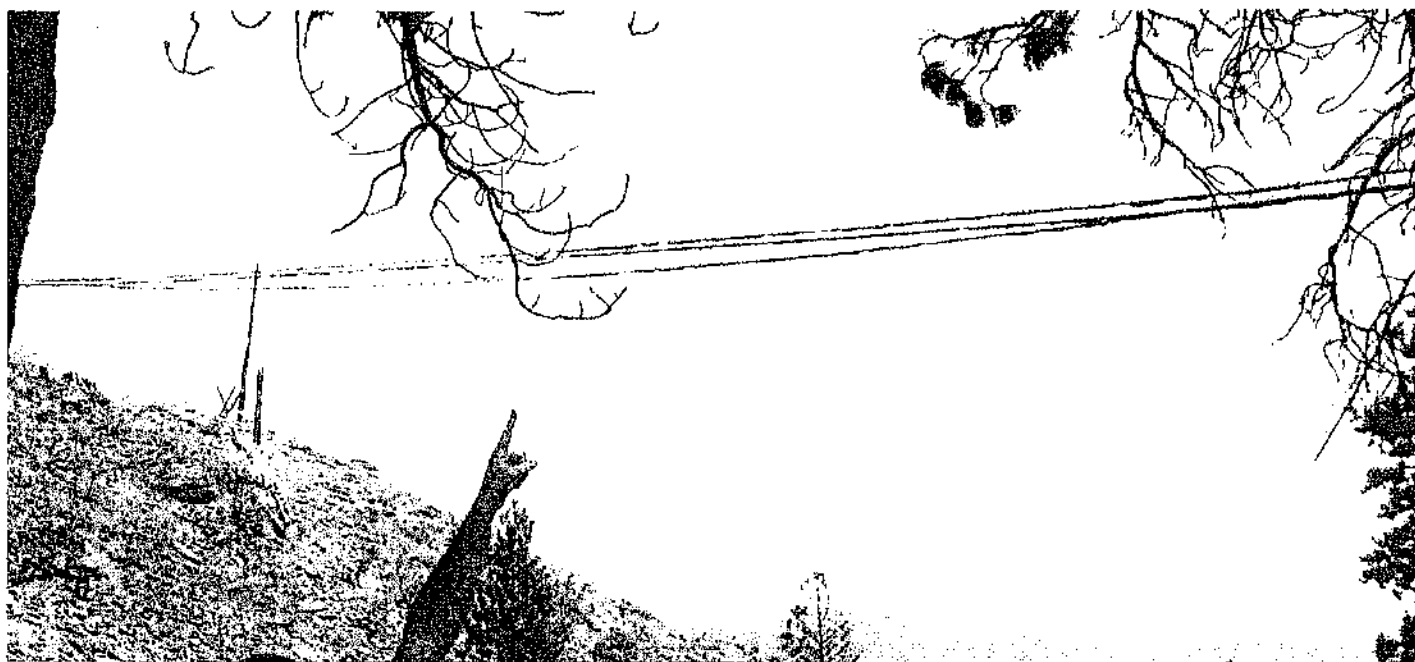
Combination panel found in open workshop area. Shows signs of high heat, high energy.



Finger is pointing to the stranded conductors found strung through the trees terminated in the service compartment of the combination panel. These conductors are tied in a knot at the knock out. Single stranded conductors are not suitable for use in a connector into a panel. Connector was not located, possibly melted away or missing?



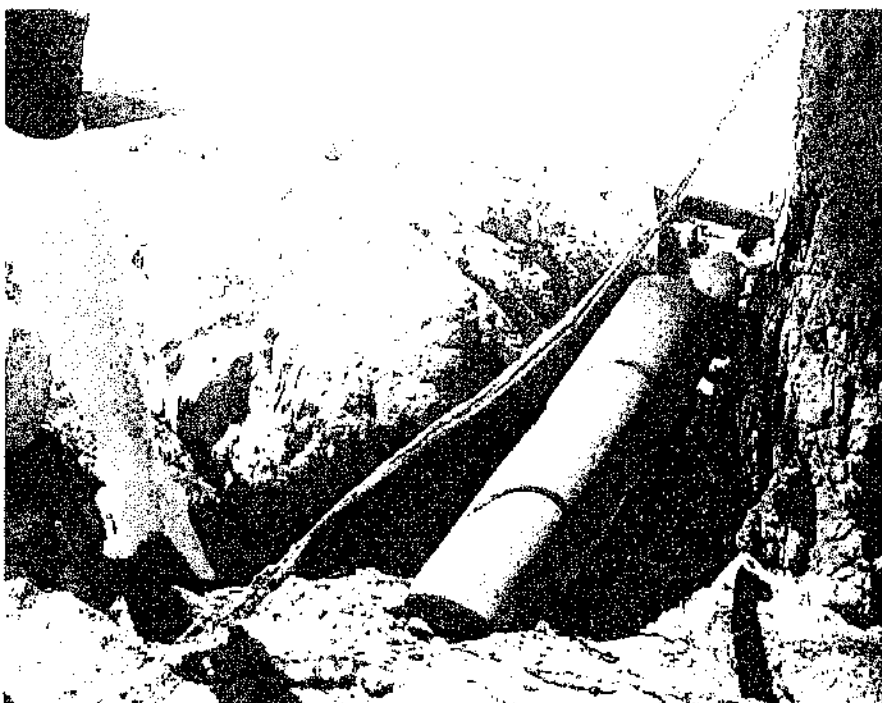
Conductors strung up the tree.



Conductor from panel found strung overhead



Conductor run down the tree into the ground





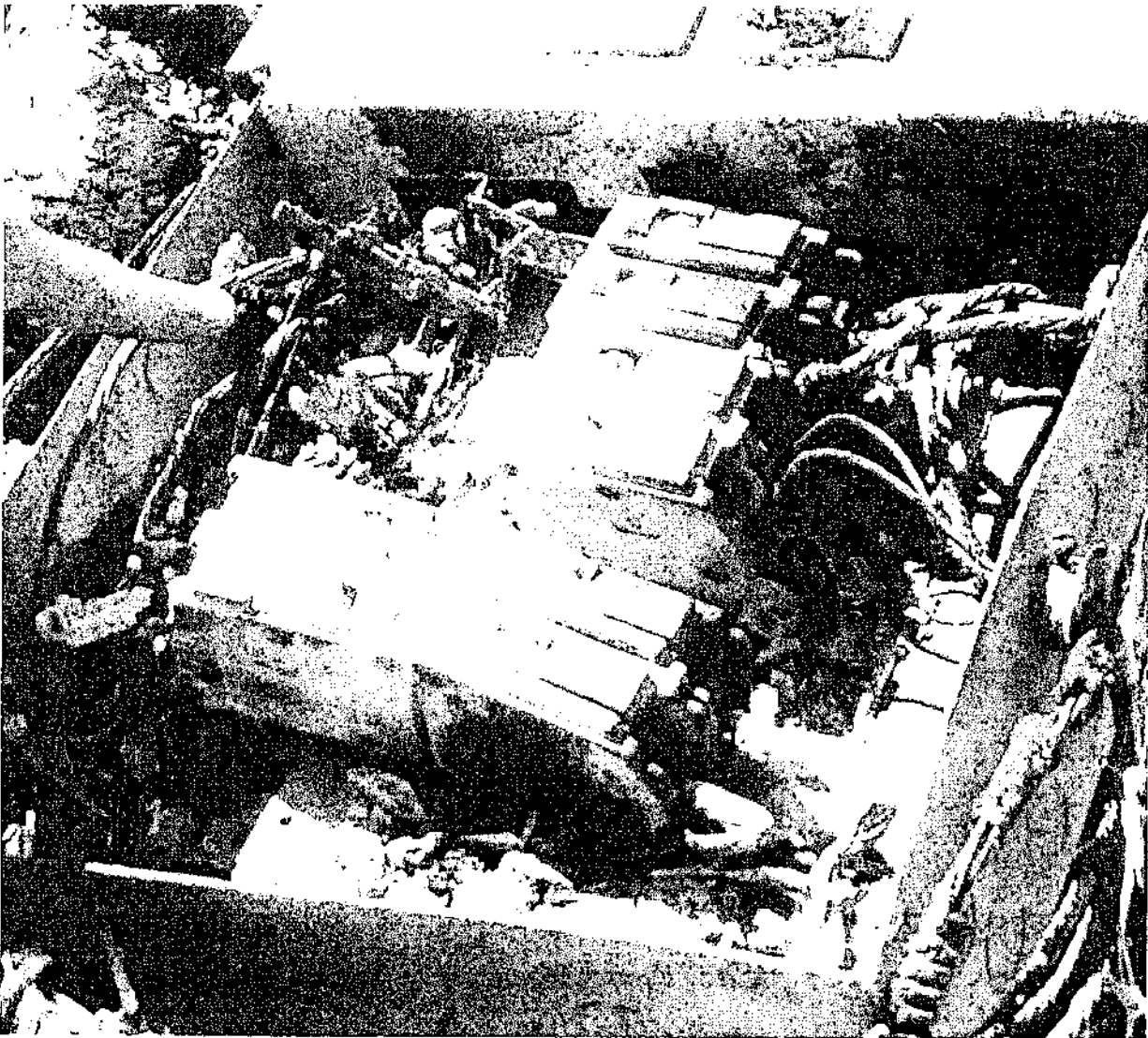
The remnants of the main consumers service located south of the workshop area. Power to this end of the property originates from this service.



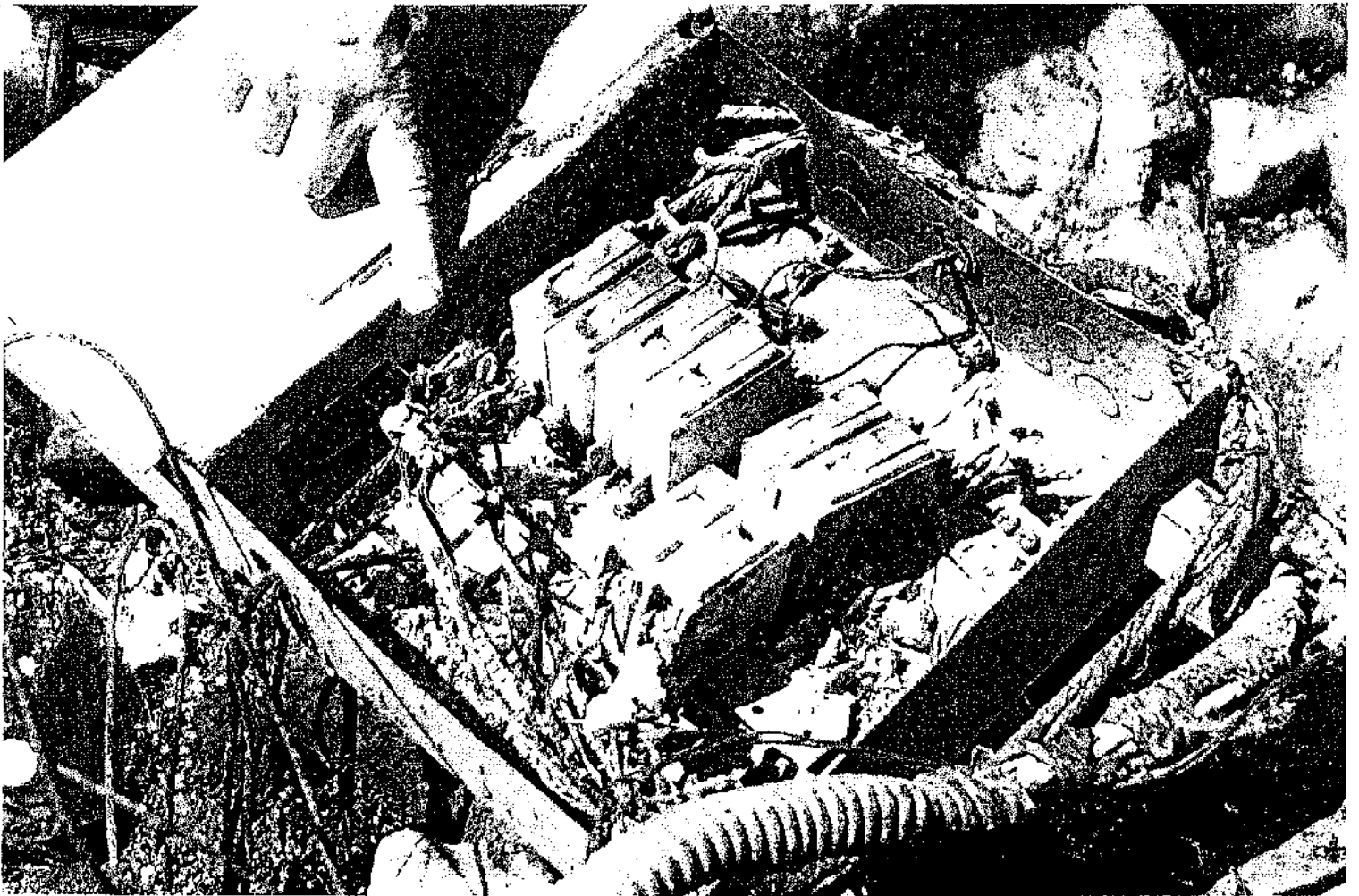
Wide shot of the consumer's service with the utility supply and pole mounted transformer.



Consumers service branch circuit area



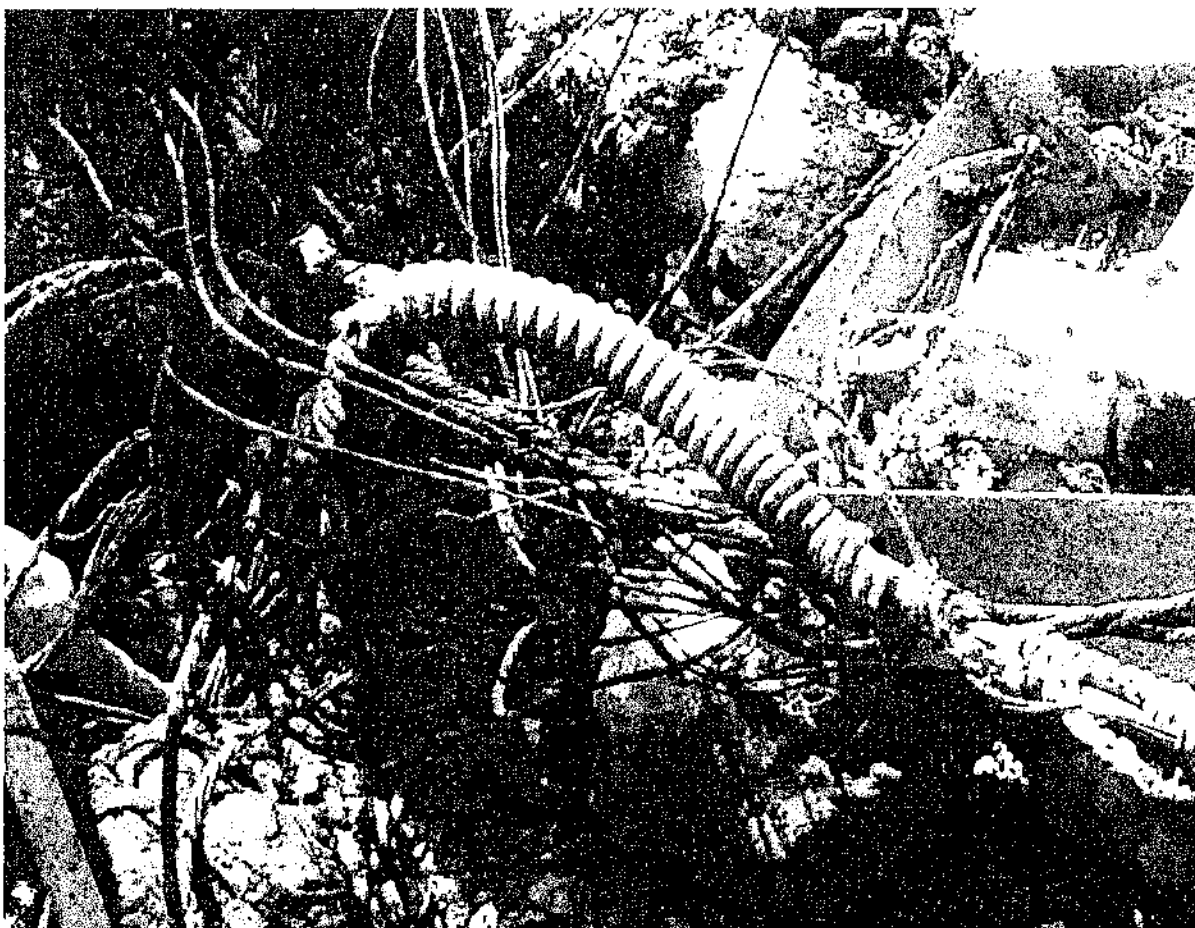
Closer view of the branch circuit area of the consumer service panel. Four 2 pole breakers are mostly intact. Finger points to the remnants of a 2 pole breaker. The incinerated breaker indicates a much higher temperature for a longer period of time at this location.



View from another angle. Note that all intact breakers have only one conductor terminated on the breaker terminals. The most damaged breaker has two conductors terminated on the terminals.



Close up of the breaker remains showing two conductors terminated on the terminals. The conductors that are "cleaner" of remaining insulation are the same size and strand count as the conductors found feeding the panel in open workshop area.



Tracing the conductors of the same size and type as the open workshop area conductors, they go into the earth adjacent to the consumer service location.



Red arrow indicates the location of the panel found in the open workshop area. Photo supplied by the BC Wildfire service



Red arrow indicates the location of the open workshop area panel, green arrow indicates the location of the consumer's service.

FORTIS INFO

Background info:

Target or Event on the system: When something happens on the system to cause a rise in current either phase to ground or phase to phase. This event may or may not result in a trip of the system. This could be caused by branches, birds/animals, wind, MVA's etc.

Trip of the System: occurs when the event on the system results in a rise in current that exceeds the set trip threshold resulting in an outage.

Transient Fault: A fault that occurs and clears quickly enough that the system protection operates and recloses and does not result in an extended outage.

Fault/Trip/ Lock out : Event or Fault occurs, system operates/trips/recloses/trips again and locks out. This happens when a fault occurs and does not clear from the line. This could be a tree on the line, an MVA, a wind event etc.

What we know:

There was no event, targets or fault of any kind on 43 Line on August 14th. 43 Line was de-energized at 18:22 on Friday.

At 17:37 and 17:39 B phase to ground target on OLI1

At 17:39 B phase cut out @ 72n454 operated

At 18:09 OLI1 feeder trip (a phase and C phase to Ground)

AT 18:09 C phase cut out operated @ 72n454

At 18:09 503 Wilson Mt. rd meter stopped registering (AMI confirmed)

At 19:00s.22 residence, meter stopped registering (AMI confirmed)

At 19:07 Crew on site @ 72n454, C phase cut out was open, crew did not re-energize

At 22:10 Plt de-energized A phase @ 72n454

August 15th @ 05:15 I can confirm all distribution on the 43 Line under build was intact. No wire on the ground. North pole of Str. 27 was completely burnt, cross-arm had swung down but 43 line north phase was still in the air and not contacting the distribution circuit.

01170

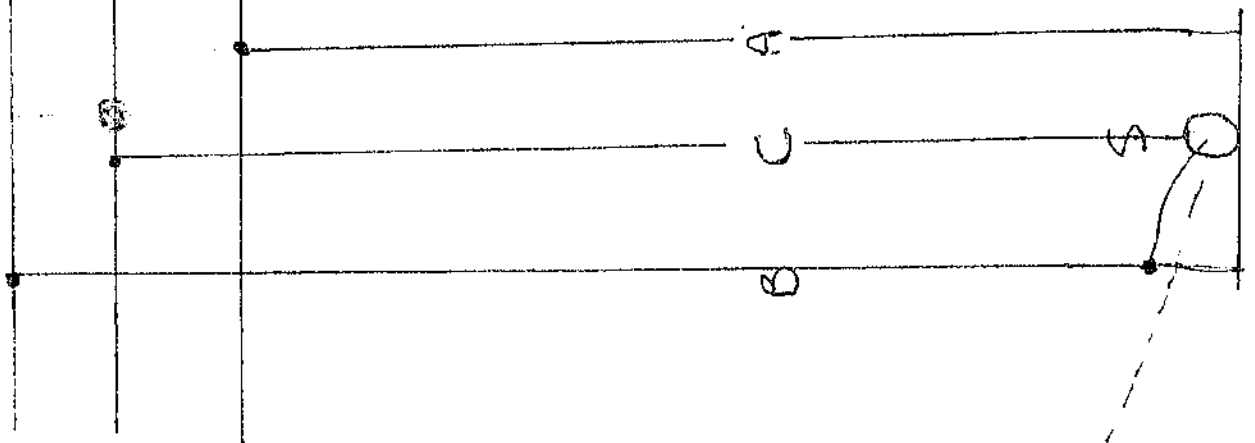
A
C
B

19:07 Crew on site

70454 → S S S

Bunker Fed from B phase
Cutout on Trans tripped

90 A
34000





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PROJECT

PAGE _____ OF _____

W.D. No.

DATE

VR

MTH

DAY

BY

EVENT	DATE	TIME	
9	08/14/15	17:37:02	Bφ - G
8		17:39:07	Bφ - G
7		18:09:03	Cφ - G TRIP
6		18:09:08	Cφ / Aφ / G
5		18:09:13	Cφ / G
4		21:16:08	Cφ - Cφ TRIP
3		21:16:03	Aφ - G
2		21:16:09	Aφ - G
1	08/17/15	19:22:47	EVENT

OK! FEEDER 1

WILSON MTN RD

503

150 m

190 m

North
↑

Height of land

Edge of Burned Area

Suspected Area
where fire started →

FORTIS BC

Suite 100, 1875 Springfield Rd.
Kelowna, British Columbia, V1Y 7V7
1-888-FORTIS
http://www.fortisbc.com



1:4,144

Green, Darrell TRAN:EX

From: Romano, Todd <Todd.Romano@fortisbc.com>
Sent: Tuesday, November 3, 2015 15:33
To: Green, Darrell TRAN:EX
Subject: FW: Event Reports
Attachments: BEN 43L 14Aug2015 SER.docx; OLI DB1 14Aug2015 HIS & SER.TXT

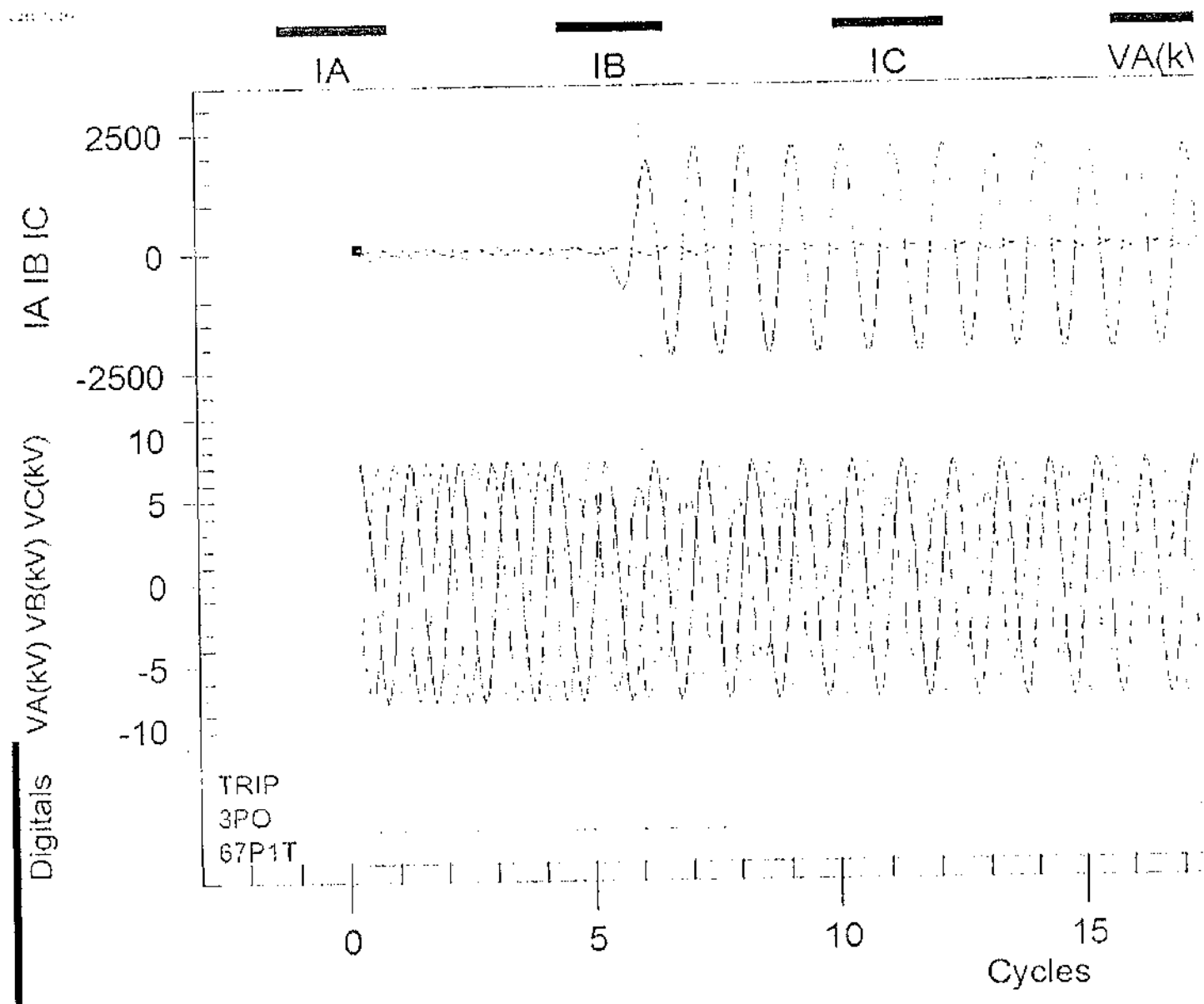
Darrell here are the reports from Engineering. As we already knew, 43 Line (transmission) did not trip at all or have any events. OLI 1 is the Distribution circuit and as shown it tripped twice that afternoon/evening. We also know that there was an event above Mikes Auto at around 17:42 that caused the Fused Disconnect to open at Mikes Auto.

With respect to the Meters, the meter on the Shop area at 's.22 stopped registering @ 16:39 and the meter on his residence stopped registering @19:05.

I can also verify that when I was on the site of the fire at 5:15 Saturday morning, the 15th of August, our distribution system was intact, there was no damage to any of the distribution conductors or associated hardware. There was visible damage to the poles at structures 43L26 and 43L27. The transmission X-arm had swung down at 43L27 but the transmission phase was still being supported by structure 43L26 and 43L28 and was not on or near the ground. Let me know if you want to discuss any of the information provided or if you need something else, thanks

Attached are the relay sequence of events for BEN 43L and OLI DB1 on 14Aug2015. BEN 43L did not trip and was manually opened only. OLI DB1 had two fault trips – one at 18:09 (C-phase to ground with 2900 Amps of fault current) then another event at 21:15 (B-C phase with 2800 Amps of fault current) – below are the event screen shots plus relay event record attached.

[LI DB1 14Aug2015 18:09](#)



OLI DB1 14Aug2015 21:15

his 10

50/51-DB1 Date: 10/29/15 Time: 17:02:17.191
OLIVER SUBSTATION

#	DATE	TIME	EVENT	LOCAT	CURR	FREQ	GRP	SHOT	TARGETS
1	08/17/15	19:22:47.881	ER	\$\$\$\$\$\$\$	337	60.02	1	0	10000000 10000000
2	08/14/15	21:16:09.546	AG	\$\$\$\$\$\$\$	2281	60.01	1	1	10000000 01000000
3	08/14/15	21:16:03.618	BCG	\$\$\$\$\$\$\$	868	60.01	1	1	10000000 01000000
4	08/14/15	21:15:58.506	BC T	\$\$\$\$\$\$\$	2768	60.01	1	0	11100100 01001100
5	08/14/15	18:09:13.805	CG	\$\$\$\$\$\$\$	2287	60.01	1	1	10000000 01000000
6	08/14/15	18:09:08.944	CAG	\$\$\$\$\$\$\$	996	60.01	1	1	10000000 01000000
7	08/14/15	18:09:03.516	CG T	\$\$\$\$\$\$\$	2878	60.02	1	0	11100100 01001100
8	08/14/15	17:39:07.370	BG	\$\$\$\$\$\$\$	1078	60.01	1	0	10000000 10000000
9	08/14/15	17:37:02.090	BG	\$\$\$\$\$\$\$	647	60.01	1	0	10000000 10000000
10	08/04/15	17:37:09.695	CG	\$\$\$\$\$\$\$	1429	59.99	1	0	10000000 10000000

=> User 300

50/51-DB1 Date: 10/29/15 Time: 17:02:20.730
OLIVER SUBSTATION

FID=SEL-351S-6-R508-V0-Z103103-D20100908 CID=6DFB

#	Date	Time	Element	State
300	06/29/15	23:37:13.268	51Q	Deasserted
299	06/29/15	23:37:13.289	51G1	Deasserted
298	06/29/15	23:37:13.289	OUT103	Deasserted
297	06/29/15	23:37:13.289	OUT106	Deasserted
296	07/15/15	08:48:16.672	IN103	Deasserted
295	07/15/15	08:48:16.672	79LO	Asserted
294	07/15/15	08:48:16.672	79RS	Deasserted
293	07/15/15	08:48:21.475	IN104	Asserted
292	07/15/15	12:05:22.678	IN104	Deasserted
291	07/15/15	12:05:26.064	IN103	Asserted
290	07/15/15	12:05:27.064	79LO	Deasserted
289	07/15/15	12:05:27.064	79RS	Asserted
288	07/16/15	13:36:36.214	ALARM	Asserted
287	07/16/15	13:36:37.214	ALARM	Deasserted
286	07/16/15	13:36:42.562	OUT102	Asserted
285	07/16/15	13:36:43.575	OUT102	Deasserted
284	07/16/15	13:37:12.864	OUT102	Asserted
283	07/16/15	13:37:13.876	OUT102	Deasserted
282	07/20/15	03:28:48.875	51G1	Asserted
281	07/20/15	03:28:48.875	OUT103	Asserted
280	07/20/15	03:28:48.875	OUT106	Asserted
279	07/20/15	03:28:48.942	51G1	Deasserted
278	07/20/15	03:28:48.942	OUT103	Deasserted
277	07/20/15	03:28:48.942	OUT106	Deasserted
276	07/20/15	03:30:55.667	51G1	Asserted
275	07/20/15	03:30:55.667	OUT103	Asserted
274	07/20/15	03:30:55.667	OUT106	Asserted
273	07/20/15	03:30:55.671	51Q	Asserted
272	07/20/15	03:30:55.675	51P1	Asserted
271	07/20/15	03:30:55.683	51P1	Deasserted
270	07/20/15	03:30:55.687	51Q	Deasserted
269	07/20/15	03:30:55.692	51G1	Deasserted
268	07/20/15	03:30:55.692	OUT103	Deasserted
267	07/20/15	03:30:55.692	OUT106	Deasserted
266	08/04/15	17:37:09.691	51P1	Asserted
265	08/04/15	17:37:09.691	51G1	Asserted

			OLI DB1 14Aug2015 HIS	SER
264	08/04/15	17:37:09.691	OUT103	Asserted
263	08/04/15	17:37:09.691	OUT106	Asserted
262	08/04/15	17:37:09.695	51Q	Asserted
261	08/04/15	17:37:09.716	51P1	Deasserted
260	08/04/15	17:37:09.720	51Q	Deasserted
259	08/04/15	17:37:09.724	51G1	Deasserted
258	08/04/15	17:37:09.724	OUT103	Deasserted
257	08/04/15	17:37:09.724	OUT106	Deasserted
256	08/14/15	17:37:02.086	51G1	Asserted
255	08/14/15	17:37:02.086	OUT103	Asserted
254	08/14/15	17:37:02.086	OUT106	Asserted
253	08/14/15	17:37:02.090	51Q	Asserted
252	08/14/15	17:37:02.095	51P1	Asserted
251	08/14/15	17:37:02.103	51P1	Deasserted
250	08/14/15	17:37:02.103	51G1	Deasserted
249	08/14/15	17:37:02.107	51Q	Deasserted
248	08/14/15	17:37:02.107	OUT103	Deasserted
247	08/14/15	17:37:02.107	OUT106	Deasserted
246	08/14/15	17:39:07.366	51P1	Asserted
245	08/14/15	17:39:07.366	51G1	Asserted
244	08/14/15	17:39:07.366	OUT103	Asserted
243	08/14/15	17:39:07.366	OUT106	Asserted
242	08/14/15	17:39:07.370	51Q	Asserted
241	08/14/15	17:39:07.382	51P1	Deasserted
240	08/14/15	17:39:07.382	51G1	Deasserted
239	08/14/15	17:39:07.387	51Q	Deasserted
238	08/14/15	17:39:07.387	OUT103	Deasserted
237	08/14/15	17:39:07.387	OUT106	Deasserted
236	08/14/15	18:09:03.512	51P1	Asserted
235	08/14/15	18:09:03.512	51G1	Asserted
234	08/14/15	18:09:03.512	OUT103	Asserted
233	08/14/15	18:09:03.512	OUT106	Asserted
232	08/14/15	18:09:03.516	51Q	Asserted
231	08/14/15	18:09:03.853	67P1	Asserted
230	08/14/15	18:09:03.853	67P1T	Asserted
229	08/14/15	18:09:03.853	79CY	Asserted
228	08/14/15	18:09:03.853	79RS	Deasserted
227	08/14/15	18:09:03.853	OUT101	Asserted
226	08/14/15	18:09:03.853	TRIP	Asserted
225	08/14/15	18:09:03.853	OUT211	Asserted
224	08/14/15	18:09:03.853	OUT210	Asserted
223	08/14/15	18:09:03.870	IN102	Deasserted
222	08/14/15	18:09:03.878	67P1	Deasserted
221	08/14/15	18:09:03.878	67P1T	Deasserted
220	08/14/15	18:09:03.887	IN101	Deasserted
219	08/14/15	18:09:03.895	52A	Deasserted
218	08/14/15	18:09:03.903	51P1	Deasserted
217	08/14/15	18:09:03.903	51G1	Deasserted
216	08/14/15	18:09:03.903	3PO	Asserted
215	08/14/15	18:09:03.907	51Q	Deasserted
214	08/14/15	18:09:03.907	OUT103	Deasserted
213	08/14/15	18:09:03.907	OUT106	Deasserted
212	08/14/15	18:09:04.353	OUT101	Deasserted
211	08/14/15	18:09:04.353	TRIP	Deasserted
210	08/14/15	18:09:04.353	OUT211	Deasserted
209	08/14/15	18:09:04.353	OUT210	Deasserted
208	08/14/15	18:09:08.889	OUT102	Asserted
207	08/14/15	18:09:08.939	51Q	Asserted
206	08/14/15	18:09:08.939	OUT103	Asserted
205	08/14/15	18:09:08.939	OUT106	Asserted
204	08/14/15	18:09:08.944	51G1	Asserted
203	08/14/15	18:09:08.944	IN101	Asserted
202	08/14/15	18:09:08.944	IN102	Asserted

OLI DB1 14Aug2015 HIS SER

201	08/14/15	18:09:08.944	52A	Asserted
200	08/14/15	18:09:08.944	OUT102	Deasserted
199	08/14/15	18:09:08.952	51P1	Asserted
198	08/14/15	18:09:08.960	3PO	Deasserted
197	08/14/15	18:09:09.002	51P1	Deasserted
196	08/14/15	18:09:09.064	51Q	Deasserted
195	08/14/15	18:09:09.069	51G1	Deasserted
194	08/14/15	18:09:09.069	OUT103	Deasserted
193	08/14/15	18:09:09.069	OUT106	Deasserted
192	08/14/15	18:09:13.801	51G1	Asserted
191	08/14/15	18:09:13.801	OUT103	Asserted
190	08/14/15	18:09:13.801	OUT106	Asserted
189	08/14/15	18:09:13.809	51P1	Asserted
188	08/14/15	18:09:13.813	51Q	Asserted
187	08/14/15	18:09:14.426	51P1	Deasserted
186	08/14/15	18:09:14.447	51Q	Deasserted
185	08/14/15	18:09:14.467	51G1	Deasserted
184	08/14/15	18:09:14.467	OUT103	Deasserted
183	08/14/15	18:09:14.467	OUT106	Deasserted
182	08/14/15	18:10:08.935	79CY	Deasserted
181	08/14/15	18:10:08.935	79RS	Asserted
180	08/14/15	21:15:58.502	51Q	Asserted
179	08/14/15	21:15:58.502	OUT103	Asserted
178	08/14/15	21:15:58.502	OUT106	Asserted
177	08/14/15	21:15:58.506	51P1	Asserted
176	08/14/15	21:15:58.527	67P1	Asserted
175	08/14/15	21:15:58.527	67P1T	Asserted
174	08/14/15	21:15:58.527	79CY	Asserted
173	08/14/15	21:15:58.527	79RS	Deasserted
172	08/14/15	21:15:58.527	OUT101	Asserted
171	08/14/15	21:15:58.527	TRIP	Asserted
170	08/14/15	21:15:58.527	OUT211	Asserted
169	08/14/15	21:15:58.527	OUT210	Asserted
168	08/14/15	21:15:58.531	67P1	Deasserted
167	08/14/15	21:15:58.531	67P1T	Deasserted
166	08/14/15	21:15:58.544	IN102	Deasserted
165	08/14/15	21:15:58.560	IN101	Deasserted
164	08/14/15	21:15:58.569	52A	Deasserted
163	08/14/15	21:15:58.573	51P1	Deasserted
162	08/14/15	21:15:58.577	51Q	Deasserted
161	08/14/15	21:15:58.577	3PO	Asserted
160	08/14/15	21:15:58.577	OUT103	Deasserted
159	08/14/15	21:15:58.577	OUT106	Deasserted
158	08/14/15	21:15:59.027	OUT101	Deasserted
157	08/14/15	21:15:59.027	TRIP	Deasserted
156	08/14/15	21:15:59.027	OUT211	Deasserted
155	08/14/15	21:15:59.027	OUT210	Deasserted
154	08/14/15	21:16:03.564	OUT102	Asserted
153	08/14/15	21:16:03.614	51G1	Asserted
152	08/14/15	21:16:03.614	OUT103	Asserted
151	08/14/15	21:16:03.614	OUT106	Asserted
150	08/14/15	21:16:03.618	IN101	Asserted
149	08/14/15	21:16:03.618	IN102	Asserted
148	08/14/15	21:16:03.618	52A	Asserted
147	08/14/15	21:16:03.618	OUT102	Deasserted
146	08/14/15	21:16:03.622	51P1	Asserted
145	08/14/15	21:16:03.626	51Q	Asserted
144	08/14/15	21:16:03.634	3PO	Deasserted
143	08/14/15	21:16:03.672	51P1	Deasserted
142	08/14/15	21:16:03.684	51Q	Deasserted
141	08/14/15	21:16:03.847	51G1	Deasserted
140	08/14/15	21:16:03.847	OUT103	Deasserted
139	08/14/15	21:16:03.847	OUT106	Deasserted

OLI DB1 14Aug2015 HIS SER

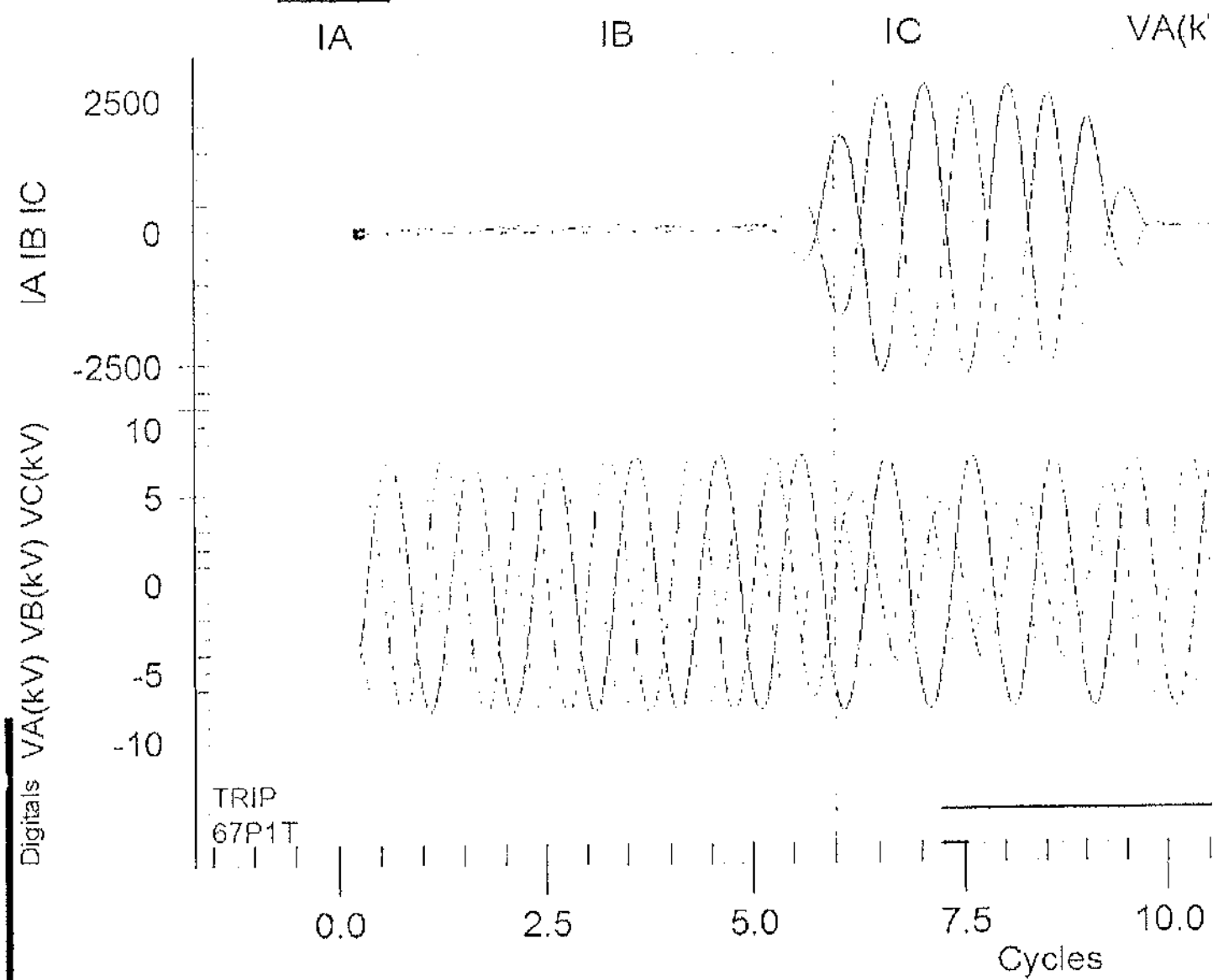
138	08/14/15	21:16:09.541	51Q	Asserted
137	08/14/15	21:16:09.541	OUT103	Asserted
136	08/14/15	21:16:09.541	OUT106	Asserted
135	08/14/15	21:16:09.546	51P1	Asserted
134	08/14/15	21:16:09.546	51G1	Asserted
133	08/14/15	21:16:09.666	51Q	Deasserted
132	08/14/15	21:16:09.671	51P1	Deasserted
131	08/14/15	21:16:09.679	51G1	Deasserted
130	08/14/15	21:16:09.679	OUT103	Deasserted
129	08/14/15	21:16:09.679	OUT106	Deasserted
128	08/14/15	21:17:03.615	79CY	Deasserted
127	08/14/15	21:17:03.615	79RS	Asserted
126	08/17/15	19:22:47.877	51G1	Asserted
125	08/17/15	19:22:47.877	OUT103	Asserted
124	08/17/15	19:22:47.877	OUT106	Asserted
123	08/17/15	19:22:47.885	51G1	Deasserted
122	08/17/15	19:22:47.885	OUT103	Deasserted
121	08/17/15	19:22:47.885	OUT106	Deasserted
120	08/20/15	12:49:35.607	IN103	Deasserted
119	08/20/15	12:49:35.607	79LO	Asserted
118	08/20/15	12:49:35.607	79RS	Deasserted
117	08/20/15	12:49:43.060	IN104	Asserted
116	08/20/15	20:37:21.847	IN104	Deasserted
115	08/20/15	20:37:26.333	IN103	Asserted
114	08/20/15	20:37:27.332	79LO	Deasserted
113	08/20/15	20:37:27.332	79RS	Asserted
112	08/21/15	07:52:26.107	IN103	Deasserted
111	08/21/15	07:52:26.107	79LO	Asserted
110	08/21/15	07:52:26.107	79RS	Deasserted
109	08/21/15	07:52:33.439	IN104	Asserted
108	08/21/15	21:33:46.032	IN104	Deasserted
107	08/21/15	21:33:50.447	IN103	Asserted
106	08/21/15	21:33:51.447	79LO	Deasserted
105	08/21/15	21:33:51.447	79RS	Asserted
104	08/22/15	08:29:23.728	IN103	Deasserted
103	08/22/15	08:29:23.728	79LO	Asserted
102	08/22/15	08:29:23.728	79RS	Deasserted
101	08/22/15	08:29:28.962	IN104	Asserted
100	08/22/15	21:07:09.514	IN104	Deasserted
99	08/22/15	21:07:12.463	IN103	Asserted
98	08/22/15	21:07:13.463	79LO	Deasserted
97	08/22/15	21:07:13.463	79RS	Asserted
96	09/09/15	10:28:03.134	IN103	Deasserted
95	09/09/15	10:28:03.134	79LO	Asserted
94	09/09/15	10:28:03.134	79RS	Deasserted
93	09/09/15	10:28:05.063	IN104	Asserted
92	09/09/15	11:37:05.654	IN104	Deasserted
91	09/09/15	11:37:12.124	IN103	Asserted
90	09/09/15	11:37:13.123	79LO	Deasserted
89	09/09/15	11:37:13.123	79RS	Asserted
88	09/23/15	13:35:09.226	IN103	Deasserted
87	09/23/15	13:35:09.226	79LO	Asserted
86	09/23/15	13:35:09.226	79RS	Deasserted
85	09/23/15	13:35:16.017	IN104	Asserted
84	09/23/15	16:37:41.855	IN104	Deasserted
83	09/23/15	16:37:47.023	IN103	Asserted
82	09/23/15	16:37:48.024	79LO	Deasserted
81	09/23/15	16:37:48.024	79RS	Asserted
80	09/24/15	07:47:07.256	IN103	Deasserted
79	09/24/15	07:47:07.256	79LO	Asserted
78	09/24/15	07:47:07.256	79RS	Deasserted
77	09/24/15	07:47:11.576	IN104	Asserted
76	09/24/15	16:53:08.213	IN104	Deasserted

OLI DB1 14Aug2015 HIS SER

75	09/24/15	16:53:18.826	IN103	Asserted
74	09/24/15	16:53:19.827	79LO	Deasserted
73	09/24/15	16:53:19.827	79RS	Asserted
72	09/29/15	09:17:56.723	IN103	Deasserted
71	09/29/15	09:17:56.723	79LO	Asserted
70	09/29/15	09:17:56.723	79RS	Deasserted
69	09/29/15	09:18:01.918	IN104	Asserted
68	09/29/15	17:14:10.431	IN104	Deasserted
67	09/29/15	17:14:15.466	IN103	Asserted
66	09/29/15	17:14:16.466	79LO	Deasserted
65	09/29/15	17:14:16.466	79RS	Asserted
64	09/30/15	06:39:09.727	IN103	Deasserted
63	09/30/15	06:39:09.727	79LO	Asserted
62	09/30/15	06:39:09.727	79RS	Deasserted
61	09/30/15	06:39:20.220	IN104	Asserted
60	09/30/15	17:07:55.412	IN104	Deasserted
59	09/30/15	17:08:13.829	IN103	Asserted
58	09/30/15	17:08:14.829	79LO	Deasserted
57	09/30/15	17:08:14.829	79RS	Asserted
56	10/01/15	07:03:57.036	IN103	Deasserted
55	10/01/15	07:03:57.036	79LO	Asserted
54	10/01/15	07:03:57.036	79RS	Deasserted
53	10/01/15	07:03:59.864	IN104	Asserted
52	10/01/15	16:10:50.446	IN104	Deasserted
51	10/01/15	16:10:53.746	IN103	Asserted
50	10/01/15	16:10:54.746	79LO	Deasserted
49	10/01/15	16:10:54.746	79RS	Asserted
48	10/05/15	07:57:21.352	IN103	Deasserted
47	10/05/15	07:57:21.352	79LO	Asserted
46	10/05/15	07:57:21.352	79RS	Deasserted
45	10/05/15	07:57:27.122	IN104	Asserted
44	10/05/15	16:04:26.940	IN104	Deasserted
43	10/05/15	16:04:31.730	IN103	Asserted
42	10/05/15	16:04:32.729	79LO	Deasserted
41	10/05/15	16:04:32.729	79RS	Asserted
40	10/06/15	07:01:26.110	IN103	Deasserted
39	10/06/15	07:01:26.110	79LO	Asserted
38	10/06/15	07:01:26.110	79RS	Deasserted
37	10/06/15	07:01:30.429	IN104	Asserted
36	10/06/15	15:59:52.418	IN104	Deasserted
35	10/06/15	15:59:55.659	IN103	Asserted
34	10/06/15	15:59:56.659	79LO	Deasserted
33	10/06/15	15:59:56.659	79RS	Asserted
32	10/07/15	07:24:29.218	IN103	Deasserted
31	10/07/15	07:24:29.218	79LO	Asserted
30	10/07/15	07:24:29.218	79RS	Deasserted
29	10/07/15	07:24:36.140	IN104	Asserted
28	10/07/15	16:29:09.238	IN104	Deasserted
27	10/07/15	16:29:18.266	IN103	Asserted
26	10/07/15	16:29:19.266	79LO	Deasserted
25	10/07/15	16:29:19.266	79RS	Asserted
24	10/08/15	07:30:11.350	IN103	Deasserted
23	10/08/15	07:30:11.350	79LO	Asserted
22	10/08/15	07:30:11.350	79RS	Deasserted
21	10/08/15	07:30:15.827	IN104	Asserted
20	10/08/15	15:10:03.027	IN104	Deasserted
19	10/08/15	15:10:10.632	IN103	Asserted
18	10/08/15	15:10:11.632	79LO	Deasserted
17	10/08/15	15:10:11.632	79RS	Asserted
16	10/20/15	07:51:45.712	IN103	Deasserted
15	10/20/15	07:51:45.712	79LO	Asserted
14	10/20/15	07:51:45.712	79RS	Deasserted
13	10/20/15	07:51:49.036	IN104	Asserted

			OLI DB1 14Aug2015 HIS	SER
12	10/20/15	14:03:14.419	IN104	Deasserted
11	10/20/15	14:03:18.963	IN103	Asserted
10	10/20/15	14:03:19.963	79LO	Deasserted
9	10/20/15	14:03:19.963	79RS	Asserted
8	10/21/15	07:35:39.430	IN103	Deasserted
7	10/21/15	07:35:39.430	79LO	Asserted
6	10/21/15	07:35:39.430	79RS	Deasserted
5	10/21/15	07:35:45.814	IN104	Asserted
4	10/21/15	16:14:37.704	IN104	Deasserted
3	10/21/15	16:14:45.633	IN103	Asserted
2	10/21/15	16:14:46.634	79LO	Deasserted
1	10/21/15	16:14:46.634	79RS	Asserted

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where log and exp are $\log(\cdot)$ and $\exp(\cdot)$.

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his

21-43L PY JAN-18-11 REV2
Bentley Terminal

Date: 10/29/2015 Time: 17:14:40.856
Serial Number: 2009302271

#	DATE	TIME	EVENT	LOCAT	CURR	GRP	TARGETS
10357	01/27/2015	15:38:15.804	CG T	28.98	979	1	INST ZONE_1 C_PHASE GROUND
10356	11/27/2014	22:45:25.828	BG T	49.47	1005	1	TIME B_PHASE GROUND
10355	11/25/2014	22:19:48.030	AB	53.26	1148	1	
10354	11/23/2014	09:54:31.884	BG T	26.62	1086	1	INST ZONE_1 B_PHASE GROUND
10353	07/14/2014	07:59:48.253	BG	55.51	954	1	
10352	01/27/2014	12:14:01.865	CAG T	35.51	1324	1	SOTF ZONE_1 A_PHASE
10351	01/27/2014	12:12:42.855	AG T	35.06	1184	1	INST ZONE_1 A_PHASE GROUND
10350	04/12/2013	21:00:31.845	CG T	40.36	916	1	INST ZONE_1 C_PHASE GROUND
10349	07/26/2012	20:53:16.452	BCG T	4.88	2038	1	INST ZONE_1 B_PHASE
10348	07/13/2012	23:45:33.642	ABC T	25.98	1716	1	INST ZONE_1 A_PHASE
10347	07/13/2012	23:44:41.881	BCG T	22.97	1738	1	INST ZONE_1 B_PHASE
10346	07/13/2012	19:56:32.753	AG T	38.37	1104	1	INST ZONE_1 A_PHASE GROUND
10345	01/01/2012	06:23:22.877	AG T	59.67	662	1	TIME A_PHASE GROUND
10344	01/01/2012	06:23:22.354	AG	60.64	637	1	
10343	12/27/2011	19:57:16.553	AG T	61.43	648	1	TIME A_PHASE GROUND
10342	12/27/2011	19:57:16.026	AG	61.20	641	1	
10341	07/07/2011	15:37:23.860	BG T	25.84	1309	1	INST ZONE_1 B_PHASE GROUND

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21-43L PY JAN-18-11 REV2
17:15:45.105
Bentley Terminal

Date: 10/29/2015 Time:
Serial Number: 2009302271

FID=SEL-421-3-R128-V0-Z012011-D20090428

#	DATE	TIME	ELEMENT	STATE
200	08/14/2015	10:45:57.607	25A1BK1	ASSERTED
199	08/14/2015	10:45:57.607	25A1BK2	Auto-Reinstated
198	08/14/2015	10:45:57.607	25A1BK2	ASSERTED
197	08/14/2015	10:46:13.934	25A1BK1	DEASSERTED
196	08/14/2015	10:46:13.934	25A1BK2	DEASSERTED
195	08/14/2015	10:46:13.938	25A1BK1	ASSERTED
194	08/14/2015	10:46:13.938	25A1BK2	ASSERTED
193	08/14/2015	10:46:14.846	25A1BK1	DEASSERTED
192	08/14/2015	10:46:14.846	25A1BK2	DEASSERTED
191	08/14/2015	10:46:14.855	25A1BK1	ASSERTED
190	08/14/2015	10:46:14.855	25A1BK2	ASSERTED
189	08/14/2015	10:46:15.042	25A1BK1	DEASSERTED
188	08/14/2015	10:46:15.042	25A1BK2	DEASSERTED
187	08/14/2015	10:46:15.155	25A1BK1	ASSERTED
186	08/14/2015	10:46:15.155	25A1BK2	ASSERTED
185	08/14/2015	10:46:15.671	25A1BK1	DEASSERTED
184	08/14/2015	10:46:15.671	25A1BK2	DEASSERTED
183	08/14/2015	10:46:15.680	25A1BK1	ASSERTED
182	08/14/2015	10:46:15.680	25A1BK2	ASSERTED
181	08/14/2015	10:46:16.092	25A1BK1	DEASSERTED
180	08/14/2015	10:46:16.092	25A1BK2	DEASSERTED
179	08/14/2015	10:46:16.100	25A1BK1	ASSERTED
178	08/14/2015	10:46:16.100	25A1BK2	ASSERTED
177	08/14/2015	10:46:16.292	25A1BK1	Auto-Removed
176	08/14/2015	10:46:16.292	25A1BK2	Auto-Removed
175	08/14/2015	10:56:55.544	IN201(79T ON)	DEASSERTED

174	08/14/2015	10:59:57.642	25A1BK1	Auto-Reinstated
173	08/14/2015	10:59:57.642	25A1BK1	ASSERTED
172	08/14/2015	10:59:57.642	25A1BK2	Auto-Reinstated
171	08/14/2015	10:59:57.642	25A1BK2	ASSERTED
170	08/14/2015	11:00:04.997	25A1BK1	DEASSERTED
169	08/14/2015	11:00:04.997	25A1BK2	DEASSERTED
168	08/14/2015	11:00:05.006	25A1BK1	ASSERTED
167	08/14/2015	11:00:05.006	25A1BK2	ASSERTED
166	08/14/2015	11:00:05.397	25A1BK1	DEASSERTED
165	08/14/2015	11:00:05.397	25A1BK2	DEASSERTED
164	08/14/2015	11:00:05.406	25A1BK1	ASSERTED
163	08/14/2015	11:00:05.406	25A1BK2	ASSERTED
162	08/14/2015	11:00:05.593	25A1BK1	DEASSERTED
161	08/14/2015	11:00:05.593	25A1BK2	DEASSERTED
160	08/14/2015	11:00:05.685	25A1BK1	ASSERTED
159	08/14/2015	11:00:05.685	25A1BK2	ASSERTED
158	08/14/2015	11:00:05.772	25A1BK1	DEASSERTED
157	08/14/2015	11:00:05.772	25A1BK2	DEASSERTED
156	08/14/2015	11:00:05.781	25A1BK1	ASSERTED
155	08/14/2015	11:00:05.781	25A1BK2	ASSERTED
154	08/14/2015	11:00:06.006	25A1BK1	DEASSERTED
153	08/14/2015	11:00:06.006	25A1BK2	DEASSERTED
152	08/14/2015	11:00:06.056	25A1BK1	ASSERTED
151	08/14/2015	11:00:06.056	25A1BK2	ASSERTED
150	08/14/2015	11:00:06.181	25A1BK1	Auto-Removed
149	08/14/2015	11:00:06.181	25A1BK2	Auto-Removed
148	08/14/2015	11:04:57.653	25A1BK1	Auto-Reinstated
147	08/14/2015	11:04:57.653	25A1BK1	ASSERTED
146	08/14/2015	11:04:57.653	25A1BK2	Auto-Reinstated
145	08/14/2015	11:04:57.653	25A1BK2	ASSERTED
144	08/14/2015	11:05:08.845	BK1CL	ASSERTED
143	08/14/2015	11:05:08.845	IN203 (CL INIT CB4)	ASSERTED
142	08/14/2015	11:05:08.845	OUT102 (CL CB4)	ASSERTED
141	08/14/2015	11:05:08.983	S2AA1	ASSERTED
140	08/14/2015	11:05:08.983	IN101 (S2AA1)	ASSERTED
139	08/14/2015	11:05:08.983	IN301 (TC MON CB4)	ASSERTED
138	08/14/2015	11:05:08.991	25A1BK1	DEASSERTED
137	08/14/2015	11:05:08.991	25A1BK2	DEASSERTED
136	08/14/2015	11:05:08.991	BK1CL	DEASSERTED
135	08/14/2015	11:05:08.991	3PO	DEASSERTED
134	08/14/2015	11:05:08.991	OUT102 (CL CB4)	DEASSERTED
133	08/14/2015	11:05:09.066	25A1BK1	ASSERTED
132	08/14/2015	11:05:09.066	25A1BK2	ASSERTED
131	08/14/2015	11:05:09.491	SOTFE	DEASSERTED
130	08/14/2015	11:05:09.849	IN203 (CL INIT CB4)	DEASSERTED
129	08/14/2015	11:13:21.878	IN201(79T ON)	ASSERTED
128	08/14/2015	11:13:31.886	BK1RS	ASSERTED
127	08/14/2015	11:13:31.886	BK1LO	DEASSERTED
126	08/14/2015	15:20:31.143	25A1BK1	DEASSERTED
125	08/14/2015	15:20:31.143	25A1BK2	DEASSERTED
124	08/14/2015	15:20:31.289	25A1BK1	ASSERTED
123	08/14/2015	15:20:31.289	25A1BK2	ASSERTED
122	08/14/2015	18:22:15.967	IN301 (TC MON CB4)	DEASSERTED
121	08/14/2015	18:22:15.992	S2AA1	DEASSERTED
120	08/14/2015	18:22:15.992	IN101 (S2AA1)	DEASSERTED
119	08/14/2015	18:22:15.996	3PO	ASSERTED
118	08/14/2015	18:22:16.000	25A1BK1	DEASSERTED

117	08/14/2015	18:22:16.000	25A1BK2	DEASSERTED
116	08/14/2015	18:22:16.009	25A1BK1	ASSERTED
115	08/14/2015	18:22:16.009	25A1BK2	ASSERTED
114	08/14/2015	18:22:16.013	25A1BK1	DEASSERTED
113	08/14/2015	18:22:16.013	25A1BK2	DEASSERTED
112	08/14/2015	18:22:16.017	BK1LO	ASSERTED
111	08/14/2015	18:22:16.017	BK1RS	DEASSERTED
110	08/14/2015	18:22:16.084	25A1BK1	ASSERTED
109	08/14/2015	18:22:16.084	25A1BK2	ASSERTED
108	08/14/2015	18:22:16.163	SOTFE	ASSERTED
107	08/14/2015	18:22:39.512	25A1BK1	DEASSERTED
106	08/14/2015	18:22:39.512	25A1BK2	DEASSERTED
105	08/14/2015	18:22:39.521	25A1BK1	ASSERTED
104	08/14/2015	18:22:39.521	25A1BK2	ASSERTED
103	08/14/2015	18:22:39.529	25A1BK1	DEASSERTED
102	08/14/2015	18:22:39.529	25A1BK2	DEASSERTED
101	08/14/2015	18:22:39.537	25A1BK1	ASSERTED
100	08/14/2015	18:22:39.537	25A1BK2	ASSERTED
99	08/14/2015	18:22:40.487	25A1BK1	DEASSERTED
98	08/14/2015	18:22:40.487	25A1BK2	DEASSERTED
97	08/14/2015	18:22:40.496	25A1BK1	ASSERTED
96	08/14/2015	18:22:40.496	25A1BK2	ASSERTED
95	08/14/2015	18:22:43.058	25A1BK1	DEASSERTED
94	08/14/2015	18:22:43.058	25A1BK2	DEASSERTED
93	08/14/2015	18:22:43.067	25A1BK1	ASSERTED
92	08/14/2015	18:22:43.067	25A1BK2	ASSERTED
91	08/14/2015	18:22:43.217	25A1BK1	DEASSERTED
90	08/14/2015	18:22:43.217	25A1BK2	DEASSERTED
89	08/14/2015	18:22:43.262	25A1BK1	ASSERTED
88	08/14/2015	18:22:43.262	25A1BK2	ASSERTED
87	08/14/2015	18:22:43.267	25A1BK1	Auto-Removed
86	08/14/2015	18:22:43.267	25A1BK2	Auto-Removed
85	08/14/2015	18:26:38.970	IN201 (79T ON)	DEASSERTED
84	08/14/2015	18:27:28.800	25A1BK1	Auto-Reinstated
83	08/14/2015	18:27:28.800	25A1BK1	DEASSERTED
82	08/14/2015	18:27:28.800	25A1BK2	Auto-Reinstated
81	08/14/2015	18:27:28.800	25A1BK2	DEASSERTED
80	08/16/2015	10:52:34.119	IN103 (LINE MOD CL)	DEASSERTED
79	08/16/2015	10:52:46.250	IN104 (LINE MOD OP)	ASSERTED
78	08/22/2015	21:26:39.301	IN104 (LINE MOD OP)	DEASSERTED
77	08/22/2015	21:26:52.199	IN103 (LINE MOD CL)	ASSERTED
76	08/22/2015	21:31:56.561	BK1CL	ASSERTED
75	08/22/2015	21:31:56.561	IN203 (CL INIT CB4)	ASSERTED
74	08/22/2015	21:31:56.561	OUT102 (CL CB4)	ASSERTED
73	08/22/2015	21:31:56.699	52AA1	ASSERTED
72	08/22/2015	21:31:56.699	IN101 (52AA1)	ASSERTED
71	08/22/2015	21:31:56.699	IN301 (TC MON CB4)	ASSERTED
70	08/22/2015	21:31:56.701	BK1CL	DEASSERTED
69	08/22/2015	21:31:56.701	OUT102 (CL CB4)	DEASSERTED
68	08/22/2015	21:31:56.707	3PO	DEASSERTED
67	08/22/2015	21:31:56.826	25A1BK1	ASSERTED
66	08/22/2015	21:31:56.826	25A1BK2	ASSERTED
65	08/22/2015	21:31:57.207	SOTFE	DEASSERTED
64	08/22/2015	21:31:57.567	IN203 (CL INIT CB4)	DEASSERTED
63	08/22/2015	21:36:21.309	IN301 (TC MON CB4)	DEASSERTED
62	08/22/2015	21:36:21.336	3PO	ASSERTED
61	08/22/2015	21:36:21.336	52AA1	DEASSERTED

60	08/22/2015	21:36:21.336	IN101 (52AA1)	DEASSERTED
59	08/22/2015	21:36:21.338	25A1BK1	DEASSERTED
58	08/22/2015	21:36:21.338	25A1BK2	DEASSERTED
57	08/22/2015	21:36:21.502	SOTFE	ASSERTED
56	08/22/2015	21:43:03.027	25A1BK1	ASSERTED
55	08/22/2015	21:43:03.027	25A1BK2	ASSERTED
54	08/22/2015	21:43:03.148	25A1BK1	DEASSERTED
53	08/22/2015	21:43:03.148	25A1BK2	DEASSERTED
52	08/22/2015	21:43:03.214	25A1BK1	ASSERTED
51	08/22/2015	21:43:03.214	25A1BK2	ASSERTED
50	08/22/2015	21:43:03.219	25A1BK1	DEASSERTED
49	08/22/2015	21:43:03.219	25A1BK2	DEASSERTED
48	08/22/2015	21:43:03.227	25A1BK1	ASSERTED
47	08/22/2015	21:43:03.227	25A1BK2	ASSERTED
46	08/22/2015	21:43:03.385	25A1BK1	DEASSERTED
45	08/22/2015	21:43:03.385	25A1BK2	DEASSERTED
44	08/22/2015	21:43:03.440	25A1BK1	ASSERTED
43	08/22/2015	21:43:03.440	25A1BK2	ASSERTED
42	08/22/2015	21:43:03.444	25A1BK1	DEASSERTED
41	08/22/2015	21:43:03.444	25A1BK2	DEASSERTED
40	08/22/2015	21:43:03.452	25A1BK1	ASSERTED
39	08/22/2015	21:43:03.452	25A1BK2	ASSERTED
38	08/22/2015	21:43:03.469	25A1BK1	DEASSERTED
37	08/22/2015	21:43:03.469	25A1BK2	DEASSERTED
36	08/22/2015	21:43:03.544	25A1BK1	Auto-Removed
35	08/22/2015	21:43:03.544	25A1BK2	Auto-Removed
34	08/22/2015	21:49:29.523	BK1CL	ASSERTED
33	08/22/2015	21:49:29.523	IN203 (CL INIT CB4)	ASSERTED
32	08/22/2015	21:49:29.523	OUT102 (CL CB4)	ASSERTED
31	08/22/2015	21:49:29.656	52AA1	ASSERTED
30	08/22/2015	21:49:29.656	IN101 (52AA1)	ASSERTED
29	08/22/2015	21:49:29.659	IN301 (TC MON CB4)	ASSERTED
28	08/22/2015	21:49:29.665	3PO	DEASSERTED
27	08/22/2015	21:49:29.667	OUT102 (CL CB4)	DEASSERTED
26	08/22/2015	21:49:29.671	BK1CL	DEASSERTED
25	08/22/2015	21:49:30.165	SOTFE	DEASSERTED
24	08/22/2015	21:49:30.529	IN203 (CL INIT CB4)	DEASSERTED
23	08/22/2015	21:50:54.969	IN201(79T ON)	ASSERTED
22	08/22/2015	21:51:04.982	BK1RS	ASSERTED
21	08/22/2015	21:51:04.982	BK1LO	DEASSERTED
20	08/22/2015	21:52:25.729	25A1BK1	Auto-Reinstated
19	08/22/2015	21:52:25.729	25A1BK1	ASSERTED
18	08/22/2015	21:52:25.729	25A1BK2	Auto-Reinstated
17	08/22/2015	21:52:25.729	25A1BK2	ASSERTED
16	08/29/2015	12:08:24.653	25A1BK1	DEASSERTED
15	08/29/2015	12:08:24.653	25A1BK2	DEASSERTED
14	08/29/2015	12:08:24.803	25A1BK1	ASSERTED
13	08/29/2015	12:08:24.803	25A1BK2	ASSERTED
12	09/01/2015	18:09:35.836	25A1BK1	DEASSERTED
11	09/01/2015	18:09:35.836	25A1BK2	DEASSERTED
10	09/01/2015	18:09:35.994	25A1BK1	ASSERTED
9	09/01/2015	18:09:35.994	25A1BK2	ASSERTED
8	09/03/2015	02:18:40.608	25A1BK1	DEASSERTED
7	09/03/2015	02:18:40.608	25A1BK2	DEASSERTED
6	09/03/2015	02:18:40.720	25A1BK1	ASSERTED
5	09/03/2015	02:18:40.720	25A1BK2	ASSERTED
4	10/09/2015	12:31:36.771	25A1BK1	DEASSERTED

3	10/09/2015	12:31:36.771	25A1BK2	DEASSERTED
2	10/09/2015	12:31:36.905	25A1BK1	ASSERTED
1	10/09/2015	12:31:36.905	25A1BK2	ASSERTED

=>

Green, Darrell TRAN:EX

From: Romano, Todd <Todd.Romano@fortisbc.com>
Sent: Monday, November 9, 2015 10:02
To: Green, Darrell TRAN:EX
Subject: RE: Oliver Fire meters

Meter # 6090122 – address 13941 376th ave (Bunker)

Meter # 6090121 – address 13938 376th ave (shop)

I am currently getting the information for some other meters from the area above Mikes Auto

We had no trouble calls for any residences in the area at or around the time of 16:39. I am looking for the meter info using 16:00 as a starting time for any of the neighbors. The service in question has its own transformer so when that meter stopped @ 16:39 this is the only customer fed from this location. The meter goes off from a lack of supply voltage.

From: Green, Darrell TRAN:EX [<mailto:Darrell.Green@gov.bc.ca>]
Sent: November-09-15 9:31 AM
To: Romano, Todd
Subject: RE: Oliver Fire meters

Hi Todd

Thanks for providing the information.

Are you able to provide the physical locations for the two meters listed below. Also are you also able to confirm if any other meters went off at 16.39 in that area?

If no other meters were effected at 16.39 what would be the reasons for meter 6090121 to go off at 16.39?

Thanks

Darrell Green

Fire Service Advisor – South East Region
OFFICE OF THE FIRE COMMISSIONER
Emergency Management BC

Location:

403 Vernon Street, Nelson B.C. V1L 4E6

Cell: 250.17

Office: (250) 354-5941 / Fax: (250) 354-6561

OFC 24 hour contact number: 1-888-988-9488

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From: Romano, Todd [<mailto:Todd.Romano@fortisbc.com>]
Sent: Friday, November 6, 2015 11:08
To: Green, Darrell TRAN:EX
Subject: FW: Oliver Fire meters

Green, Darrell TRAN:EX

From: Romano, Todd <Todd.Romano@fortisbc.com>
Sent: Thursday, November 12, 2015 6:48
To: Green, Darrell TRAN:EX
Subject: FW: Meters

Darrell, as indicated below, we are unable to extract any info on meters in the area that far back.

From: Kandola, Harjinder
Sent: November-09-15 3:28 PM
To: Romano, Todd
Subject: RE: Meters

Todd I am unable to check that far back for the meters.

From: Romano, Todd
Sent: November-09-15 2:11 PM
To: Kandola, Harjinder
Subject: Meters

Could you tell me what time the following meters stopped reporting on Aug 14th:

- 6086866
- 6087831
- 6090229
- 6090232

TODD ROMANO
PLT

FORTIS BC
Operations Manager - Network Services
6701 Tuc-el-Nuit Road, Oliver B.C. V0H 1T4
250498-8223/C-2508098345
<mailto:todd.romano@fortisbc.com>

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ENVIRONMENT CANADA WEATHER INFORMATION

(604) 664-9264
matt.macdonald@ec.gc.ca

From: Green, Darrell TRAN:EX [<mailto:Darrell.Green@gov.bc.ca>]
Sent: 27 octobre 2015 08:56
To: MacDonald,Matthew [PYR]
Subject: Weather request for Oliver August 14th

Hi Matt

I'm hoping you can help me with a weather request. I had sent this initially to Lisa but I see s.22
s.22

I am presently doing a fire investigation of the Wilson Mountain Fire in Oliver that started on August 14th 2015 at approximately 17.45.

It is my understanding based on reports that there were heavy winds at the time of the fire. The general location of the fire was at 466 Wilson Mountain Rd which is on the mountain side.

What I am trying to determine is which direction the wind was blowing when things started to get gusty ie from town heading up the mountain or from the top of the mountain heading towards town. If you are able to provide wind direction and speed on a map of that general area with times and if the wind direction changed at some point that would be great.

I hope this isn't too large of a request. Please free to call me to discuss if needed. Thanks

Kind Regards

Darrell Green
Fire Service Advisor – South East Region
OFFICE OF THE FIRE COMMISSIONER
Emergency Management BC

Location:
403 Vernon Street, Nelson B.C. V1L 4E6

Cell: s.17
Office: (250) 354-5941 / Fax: (250) 354-6561
OFC 24 hour contact number: 1-888-988-9488

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Let me know if you need anything else.

Regards, Matt

Matt MacDonald
Acting Warning Preparedness Meteorologist
Prediction and Services Directorate - Operations West
Meteorological Services of Canada
Environment Canada
401. Burrard St, Vancouver, BC V6C 3S5

Darrell Green

Fire Service Advisor – South East Region
 OFFICE OF THE FIRE COMMISSIONER
 Emergency Management BC

Location:

403 Vernon Street, Nelson B.C. V1L 4E6

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From: MacDonald,Matthew [PYR] [<mailto:Matt.MacDonald@ec.gc.ca>]

Sent: Tuesday, October 27, 2015 13:27

To: Green, Darrell TRAN:EX

Cc: Coidwells,Lisa [PYR]; Doug.Lundquist@ec.gc.ca

Subject: RE: Weather request for Oliver August 14th

Hi Darrell,

The closest weather station we have to the Wilson Mountain Fire is Osoyoos. Looking at the winds from August 14th, 2015, they were moderate from the North-Northeast. More specifically, when the fire started between 17 and 18 PDT, the winds were North-Northeast at 23kmh.

Hourly weather reports from Osoyoos for August 14th are available here:

http://climate.weather.gc.ca/climateData/hourlydata_e.html?timeframe=1&Prov=&StationID=1041&hlyRange=1994-02-01|2015-10-26&Year=2015&Month=8&Day=14&cmdB1=Go#

I took a look at the balloon sounding that was launched from Kelowna that afternoon at 5pm and it reported Northerly winds of 20km/h at ~600m:

71203 WLW Kelowna Apt Observations at 00Z 15 Aug 2015

PRES hPa	HGHT m	TEMP C	DWPT C	RELH %	MIXR g/kg	DRCT deg	SKNT knot	THTA K	THTE K	THTV K
1000.0	8									
951.0	456	29.4	8.4	27	7.32	20	12	306.9	329.5	308.3
937.0	587	26.8	7.8	30	7.13	350	21	305.6	327.5	306.9
934.5	620	26.7	7.3	29	6.89	345	22	305.7	326.9	307.0
925.0	700	26.2	5.2	26	6.03	345	22	306.1	324.8	307.2
902.6	914	24.7	5.4	29	6.28	350	15	306.7	326.2	307.9
871.6	1219	22.5	5.8	34	6.66	30	10	307.5	328.2	308.8
850.0	1438	21.0	6.0	38	6.94	60	10	308.1	329.7	309.4

Do you know if the fire was lightning caused or human?

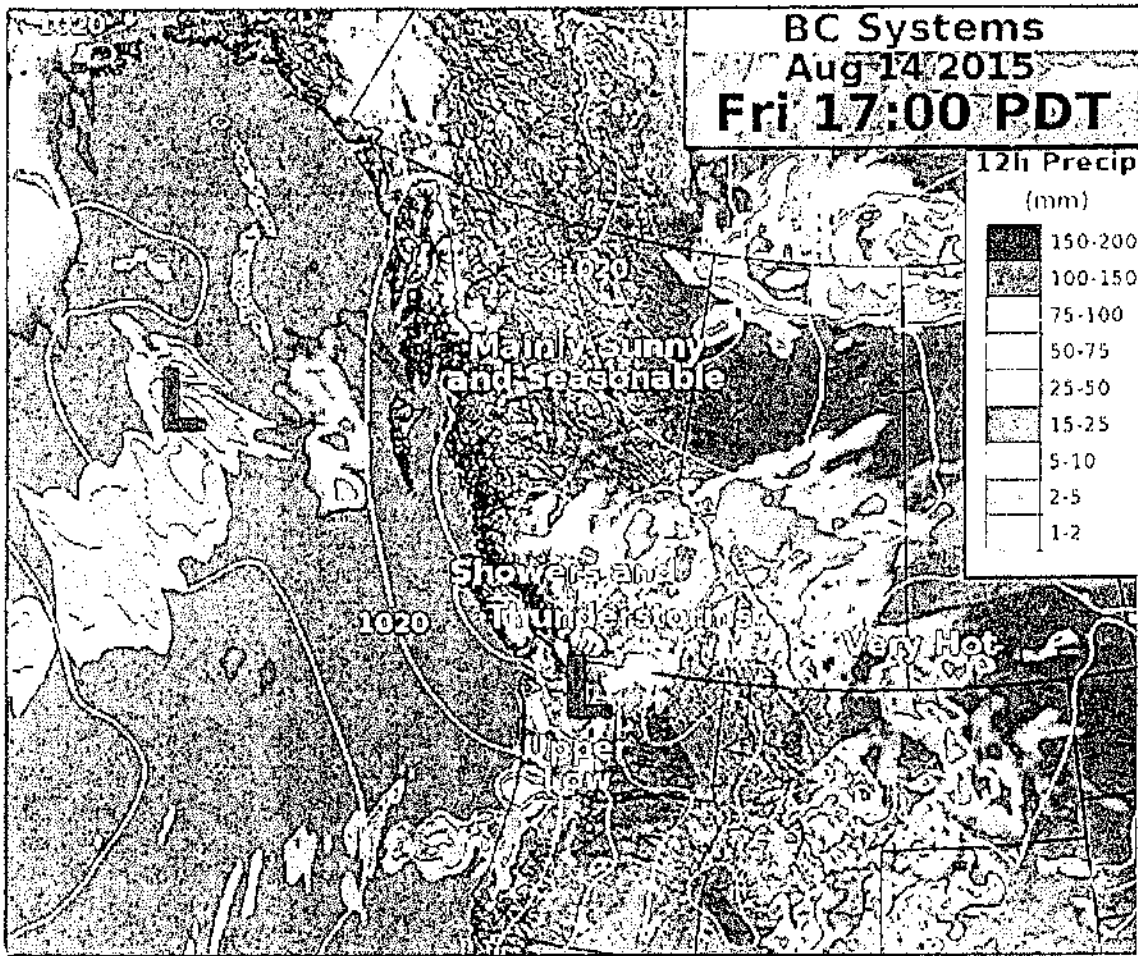
Matt

From: Green, Darrell TRAN:EX [<mailto:Darrell.Green@gov.bc.ca>]
Sent: 27 octobre 2015 14:01
To: MacDonald,Matthew [PYR]
Cc: Coldwells,Lisa [PYR]; Lundquist,Doug [PYR]
Subject: RE: Weather request for Oliver August 14th

Hi Matt

Thanks for your prompt response to my request. Greatly appreciated. I guess I was expecting much higher wind speeds as reports from that evening was that it was howling up there on Wilson Mountain.

With Oliver only being a short distance away from Osoyoos could that distance as well as the altitude were the event occurred provide for much different readings then what was showing in Osoyoos? Thanks



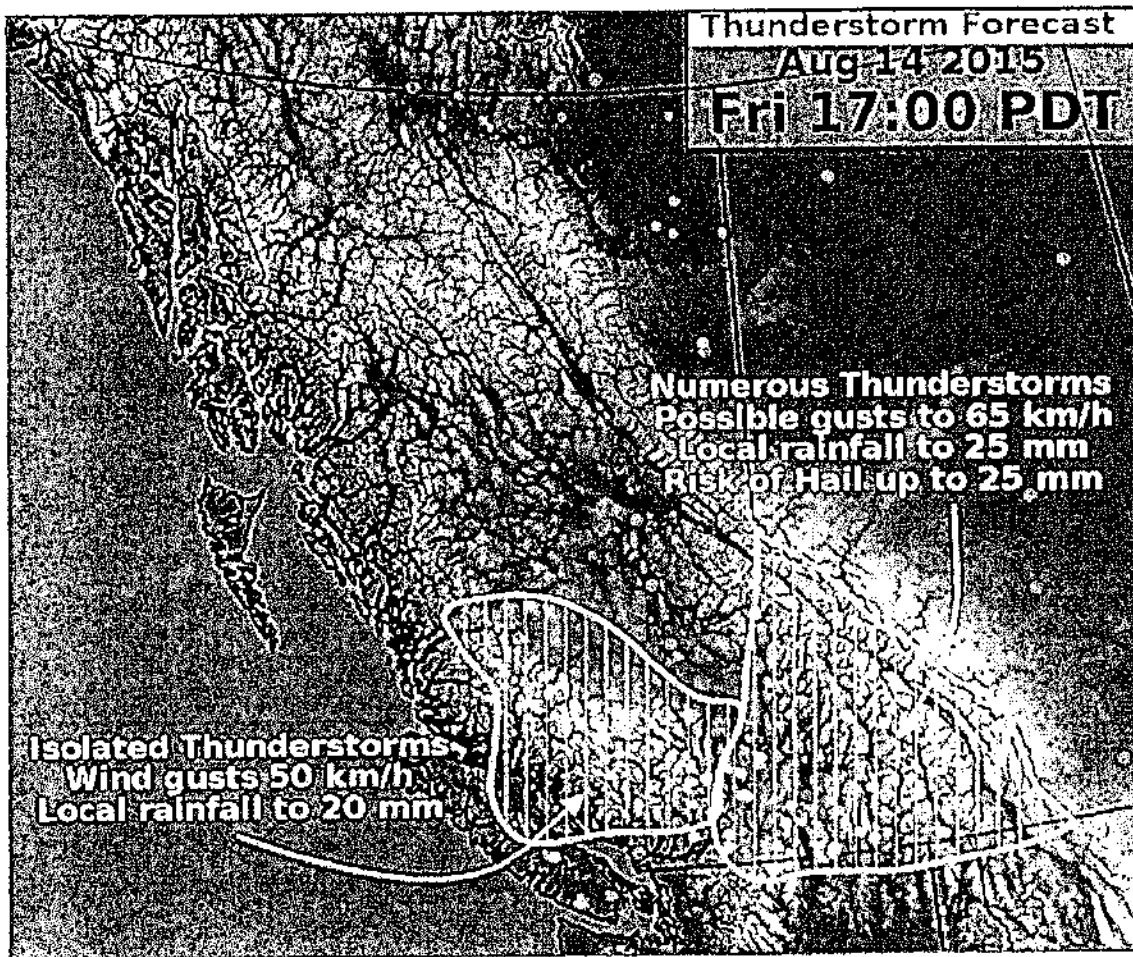
Finally, here is a map showing the lightning detection from the 14th. I plotted all strikes from 2pm to 8pm:

Cc: Coldwells,Lisa [PYR]; Lundquist,Doug [PYR]
Subject: RE: Weather request for Oliver August 14th

Heilo again,

Now that I take a look at the analyses that day, there were some thunderstorms in the area that would definitely support much stronger winds.

The convective prognosis for August 14th mentions gusts up to 65km/h:



OFC 24 hour contact number: 1-888-988-9488

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From: MacDonald,Matthew [PYR] [<mailto:Matt.MacDonald@ec.gc.ca>]
Sent: Wednesday, October 28, 2015 16:20
To: Green, Darrell TRAN:EX
Cc: Coldwells,Lisa [PYR]; Lundquist,Doug [PYR]
Subject: RE: Weather request for Oliver August 14th

The 3rd image displays the lightning strikes recorded between 2pm and 8pm on August 14th. As you can see, there were plenty (87) strikes in the region over that 6 hour window but none that were all that close to Wilson Mountain. There is a very low probability that our lightning detection system didn't capture a strike, but that's highly unlikely.

Matt

From: Green, Darrell TRAN:EX [<mailto:Darrell.Green@gov.bc.ca>]
Sent: 28 octobre 2015 09:06
To: MacDonald,Matthew [PYR]
Cc: Coldwells,Lisa [PYR]; Lundquist,Doug [PYR]
Subject: RE: Weather request for Oliver August 14th

Hi Matt

Thanks for the further information. The cause of the fire is still under investigation. Are you able to determine if there were any lightning strikes in the vicinity of Wilson Mountain? Thanks

Darrell Green
Fire Service Advisor – South East Region
OFFICE OF THE FIRE COMMISSIONER
Emergency Management BC

Location:
403 Vernon Street, Nelson B.C. V1L 4E6

Cell: s.17
Office: (250) 354-5941 / Fax: (250) 354-6561
OFC 24 hour contact number: 1-888-988-9488

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From: MacDonald,Matthew [PYR] [<mailto:Matt.MacDonald@ec.gc.ca>]
Sent: Tuesday, October 27, 2015 15:28
To: Green, Darrell TRAN:EX

Green, Darrell TRAN:EX

From: MacDonald,Matthew [PYR] <Matt.MacDonald@ec.gc.ca>
Sent: Thursday, October 29, 2015 16:00
To: Green, Darrell TRAN:EX
Cc: Lyn.Mainwaring@ec.gc.ca; Doug.Lundquist@ec.gc.ca
Subject: RE: Weather request for Oliver August 14th
Attachments: Lightning Strikes Aug 11 2015.JPG; Lightning Strikes Aug 12 2015.JPG; Lightning Strikes Aug 13 2015.JPG

Attached are 24 hour lightning summaries for Aug 11th, 12th and 13th.

There were indeed some strikes on the 12th and the 13th right near the Mount Wilson fire (the blue dots).

- Aug 12: The one further east was recorded at 23:51:03UTC and had a peak current of -5kA. The one to the west was recorded shortly after at 23:51:38UTC with a peak current of 6kA.
- Aug 13th: Yellow strike west of Oliver struck at 13:02:48UTC with peak current of 6kA.

From my understanding, it's the negatively charged strikes that start fires (i.e. strike #1).

Hopefully this info suffices, I don't have much more time to spend on this....

If you need additional lightning data support, please contact Lyn Mainwaring (Cc'd) of the Canadian Lightning Detection Network. She can provide you with higher accuracy and confidence ellipses around the individual strikes.

Regards, Matt

From: Green, Darrell TRAN:EX [mailto:Darrell.Green@gov.bc.ca]
Sent: 28 octobre 2015 16:30
To: MacDonald,Matthew [PYR]
Subject: RE: Weather request for Oliver August 14th

Hi Matt

Speaking to one of the locals today apparently there was lightening activity a few days prior in that area. Would you be able to check to see if there were strikes on that mountain?
Sorry to be bothering you with this. Just looking at all possibilities.

Thanks

Darrell Green

Fire Service Advisor -- South East Region
OFFICE OF THE FIRE COMMISSIONER
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Location:
403 Vernon Street, Nelson B.C. V1L 4E6

Cell: s.22
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Subject: RE: Weather request for Oliver August 14th

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Hello again,

Now that I take a look at the analyses that day, there were some thunderstorms in the area that would definitely support much stronger winds.

The convective prognosis for August 14th mentions gusts up to 65km/h:

Finally, here is a map showing the lightning detection from the 14th. I plotted all strikes from 2pm to 8pm:

- Do you know if the fire was lightning caused or human?

Matt

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Darrell Green

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OFFICE OF THE FIRE COMMISSIONER
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Location:

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Hourly weather reports from Osoyoos for August 14th are available here:

http://climate.weather.gc.ca/climateData/hourlydata_e.html?timeframe=1&Prov=&StationID=1041&hlyRange=1994-02-01|2015-10-26&Year=2015&Month=8&Day=14&cmdB1=Go#

I took a look at the balloon sounding that was launched from Kelowna that afternoon at 5pm and it reported Northerly winds of 20km/h at ~600m;

71203 WLW Kelowna Apt Observations at 00Z 15 Aug 2015

PRES	HGHT	TEMP	DWPT	RELH	MIXR	DRCT	SKNT	THTA	THTE	THTV
hPa	m	C	C	%	g/kg	deg	knot	K	K	K
1000.0	8									
951.0	456	29.4	8.4	27	7.32	20	12	306.9	329.5	308.3
937.0	587	26.8	7.8	30	7.13	350	21	305.6	327.5	306.9
934.5	610	26.7	7.3	29	6.89	345	22	305.7	326.9	307.0
925.0	700	26.2	5.2	26	6.03	345	22	306.1	324.8	307.2
902.6	914	24.7	5.4	29	6.28	350	15	306.7	326.2	307.9
871.6	1219	22.5	5.8	34	6.66	30	10	307.5	328.2	308.8
850.0	1438	21.0	6.0	38	6.94	60	10	308.1	329.7	309.4
812.2	1829	18.5	4.8	41	6.68	70	4	309.5	330.4	310.7
794.0	2023	17.2	4.2	42	6.55	117	8	310.1	330.7	311.4
783.6	2134	16.2	4.0	44	6.52	145	10	310.2	330.7	311.5
755.7	2438	13.5	3.3	50	6.44	155	26	310.6	330.8	311.8
728.8	2743	10.8	2.6	57	6.36	160	23	310.8	330.8	312.0
700.0	3081	7.8	1.8	66	6.27	170	32	311.1	330.8	312.3

Here is a forecast of the wind at 4pm that afternoon from our high resolution model. The model was forecasting winds from the NW of 15-25 knots which equates to 28-46km/h. Keep in mind that the model has difficulty forecasting the direction of the winds in complex terrain so I would consider the actual observations from the balloon sounding and the Osoyoos weather station to be more representative of reality.

Location:
403 Vernon Street, Nelson B.C. V1L 4E6

Cell: 250-354-5941
Office: (250) 354-5941 / Fax: (250) 354-6561
OFC 24 hour contact number: 1-888-988-9488

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From: RCDF / CLDN (EC/EC) [<mailto:CLDN@ec.gc.ca>]
Sent: Friday, October 30, 2015 10:41
To: MacDonald,Matthew [PYR]; Green, Darrell TRAN:EX
Cc: RCDF / CLDN (EC/EC)
Subject: RE: Weather request for Oliver August 14th 2015

Thanks Matt!

Hi Darrell,
I'd be happy to run lightning strike maps for you but I wouldn't want to step on BC Forestry's toes in Castlegar. They weren't able to provide you with maps? If not I can send you the maps with the confidence ellipse...which shows with 99% confidence that the strike fell somewhere within the ellipse/circle.

Just to be clear..... it's the positively charged strikes that last longer, often have a higher current and start more fires.

Let me know if you need any more maps.

Kind Regards,
Lyn Mainwaring
Meteorologist - Canadian Lightning Detection Network
National Service Office - Natural Resources Meteorological Service of Canada
1238 Discovery Avenue
Kelowna, BC V1V 1V9
Tel # 250-491-1514
RCDF/CLDN@ec.gc.ca
"When thunder roars, GO INDOORS!"
"Quand le tonnerre gronde, RENTREZ VITE!"

From: MacDonald,Matthew [PYR]
Sent: October 29, 2015 4:00 PM
To: Green, Darrell TRAN:EX
Cc: Mainwaring,Lyn [PYR] (Lyn.Mainwaring@ec.gc.ca); Lundquist,Doug [PYR] (Doug.Lundquist@ec.gc.ca)
Subject: RE: Weather request for Oliver August 14th

Attached are 24 hour lightning summaries for Aug 11th, 12th and 13th.

There were indeed some strikes on the 12th and the 13th right near the Mount Wilson fire (the blue dots).

Green, Darrell TRAN:EX

From: RCDF / CLDN (EC/EC) <CLDN@ec.gc.ca>
Sent: Monday, November 2, 2015 11:37
To: Green, Darrell TRAN:EX
Cc: RCDF / CLDN (EC/EC)
Subject: RE: Weather request for Oliver August 14th 2015
Attachments: Wilson Mtn Rd Oliver BC Aug 15 2015 SLL 24hrs Hybrid.JPG; Wilson Mtn Rd Oliver BC Aug 15 2015 SLL 1302Z.JPG

Hi Darrell,

Yes I agree there doesn't seem to be any lightning strikes detected at 466 Wilson Mt Rd (49.2050, -119.5770) or the vicinity during your time period of 1745 PDT. I have the location east of the second "o" in Willowbrook Rd.

The brownie/orange strikes which occurred must further west of the location occurred between 1700 - 1800 PDT. Please see the first image.

There were some strikes much earlier in the day about 6 am (blue circles). Please see the second image. I included the confidence ellipse on the strikes too. They are the translucent orange/brown circles/ellipses surrounding the strikes.

It could be possible that there was a low amperage strike that the sensors dismissed in the hilly terrain around Oliver. And then it took a few hours for it to smolder and then start to burn. Was there any indication that the fire started by a lightning strike? If not, then I would agree with you that fire wasn't caused by a lightning strike. As for the winds in that little valley I would be hard-pressed to say which way they would be blowing with thunderstorms around.

I hope you have found this information useful.

Kind Regards,
Lyn

From: Green, Darrell TRAN:EX [mailto:Darrell.Green@gov.bc.ca]
Sent: November 2, 2015 9:18 AM
To: RCDF / CLDN (EC/EC); MacDonald,Matthew [PYR]
Subject: RE: Weather request for Oliver August 14th 2015

Hi Lyn

I actually haven't contact BC Forestry in Castlegar regarding lightning strike maps. As this event happened in Oliver it never occurred to me to check with them. I can contact them however if you're willing to provide those maps for me that works as well.

Thanks very much Matt for providing the information to date. Looking at the maps you sent there doesn't appear to be any strikes in the vicinity of the fire location which was at 466 Wilson Mt Rd.
Not sure if you are able to provide further data Lyn that may support that possible theory? Thanks

Kind Regards
Darrell Green
Fire Service Advisor – South East Region
OFFICE OF THE FIRE COMMISSIONER
Emergency Management BC

Page 093 to/à Page 095

Withheld pursuant to/removed as

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STATEMENTS

statements from Reports of
Fire Crews.

October 18 2015

On August 14th 2015 I was the truck officer on Unit #1 (Pumper). Our unit had been sent out to investigate a downed power line on Elderberry St, as a large windstorm had just swept through the area. While we were on Elderberry St. another call was dispatched for a small grass fire near Mike's Auto-body Shop on Leighton Crescent. As we were responding to the call members on Unit #2 (Pumper) advised us that there was a lot of smoke coming from the top of Wilson Mountain. Our unit re-routed to go onto the backside of the mountain towards Wilson Mountain Road. At the same time Unit #8 (Tender) had left the Fire Hall responding to Wilson Mountain Road as well. They arrived on scene shortly before we did and were cut off by the fire, our unit staged at the houses along the ridge line over looking Oliver. The fire came over the top of the mountain but due to shifting winds it began to head to the south away from the houses. I did not observe any power lines down in the area where we staged at or any point of origin for the fire.

Scott Schaffrick

s.22

Oliver Fire Department

Attn: Fire Commissioner Office

My name is Bryon Somerville, I am a Captain for the Oliver Fire Department. I attended the fire on Wilson Mountain and was one of the first of our emergency vehicles to arrive. We stationed at the top of the road and protected the houses from the wildfire. The fire burned past the homes and made its way down the mountain. At no time during this fire did I notice any lines down of any kind.

Thank you for your time on this matter,

Bryon Somerville

* My initial view coming through the gate (G) is denoted in green on picture #1. The area around (B) was not involved nor was the area directly below (B) denoted as (C). The fire seemed to come up the hill as denoted by the green arrows, and went around the trailer and to the south of the pole-noted. I did not see any fire initially in the sheds ect. in the (C) area.

s.22

Oct 22. 2015

Wilson Mountain Fire

2015

Upon arrival myself and ^{s.22} in unit #8 were sent into the property in picture #1. We went down starting at (A) and proceeded to (B) where the owner and several people were. We advised them that they were to evacuate. They protested and went deeper to the south. At this point our position was untenable and we moved to (C) in an effort to turn around. With that accomplished we found our way out on fire and visibility 8-10 feet due to heavy smoke. We deployed a line and prepared a defense but were not as effective as hoped when trailer ignited we ~~at~~ abandoned our position and with a helicopter overhead the smoke cleared enough for a clash out.

(A)

(G)

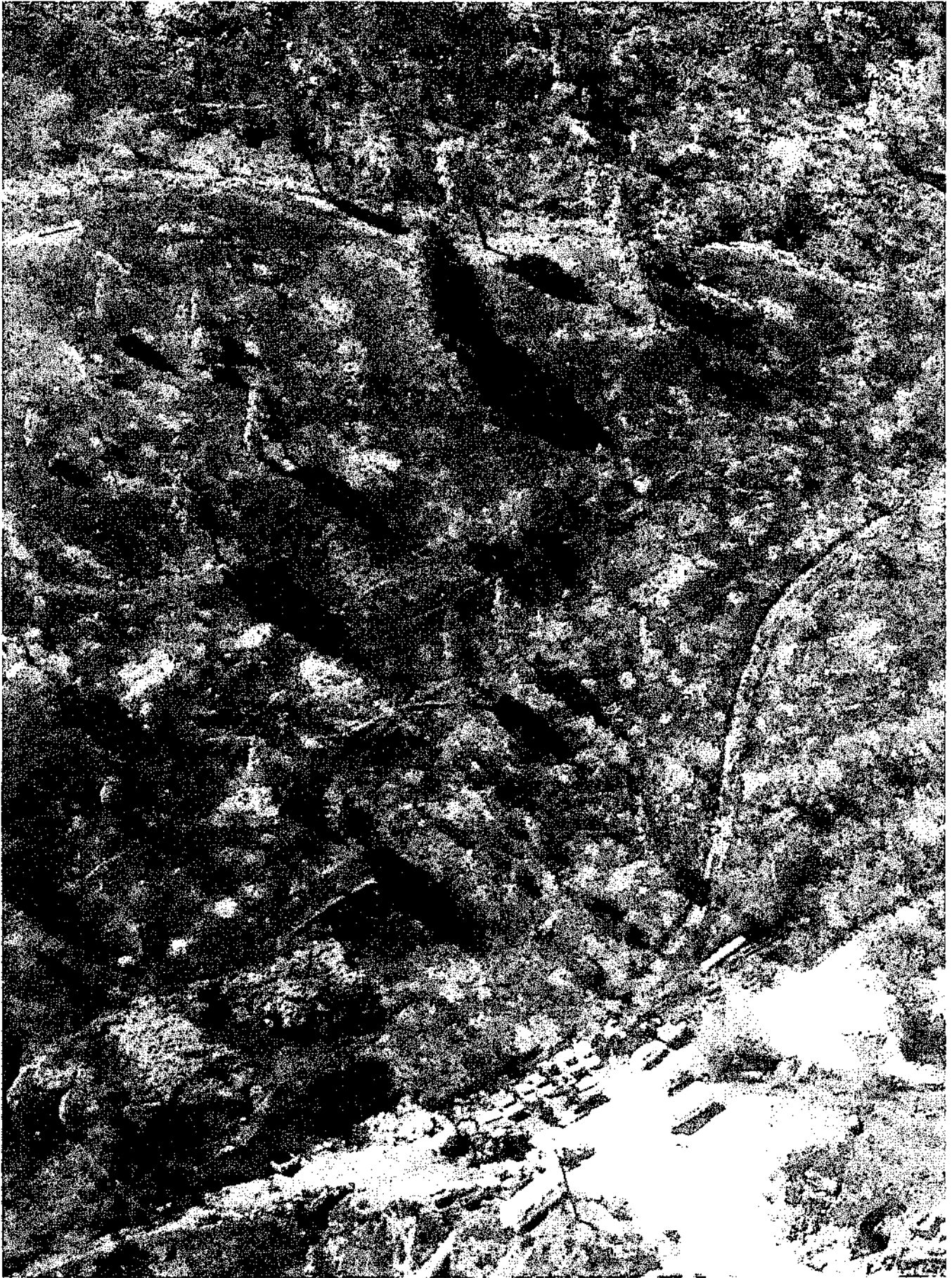
(B)

(C)

(X)

Pole

Trailer



Bob Graham

From: "Green, Darrell TRAN:EX" <Darrell.Green@gov.bc.ca>
Date: Monday, October 19, 2015 9:29 AM
To: <oliverfiredept@telus.net>
Subject: Wilson Mountain Fire

Hi Dan

Just following up. As I have not heard back I am making a formal request for statements from the members that attended the Wilson Mountain Fire on August 14th

If there were any photo's or video taken either that night or the next day I would also like access to that as well. Thanks.

Regards

Darrell Green

Fire Service Advisor – South East Region
OFFICE OF THE FIRE COMMISSIONER
Emergency Management BC

Location:

403 Vernon Street, Nelson B.C. V1L 4E6

Cell:s.17

Office: (250) 354-5941 / Fax: (250) 354-6561

OFC 24 hour contact number: 1-888-988-9488

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Bob Graham

From: "Green, Darrell JAG:EX" <Darrell.Green@gov.bc.ca>
Date: Thursday, September 24, 2015 9:54 AM
To: <oliverfredepl@telus.net>
Attach: SKG_9023.JPG
Subject: Wilson Mountain Fire

Hi Dan

I have attached a photo for Richard Simmons. To use as part of his statement.

Can you check to see if any of your members took pictures or video the evening of the fire. Also ask if they saw anything unusual.

Also any thoughts you may have. Can you forward the call log times for that event that evening. Thanks

Darrell Green OFC

Statement s.22
s.22
at 466 Wilson Mountain Rd.

Green, Darrell TRAN:EX

From: s.22
Sent: Sunday, November 8, 2015 18:53
To: Green, Darrell TRAN:EX
Subject: s.22 (Wilson Mnt Fire Statement)
Attachments: IMG_0315.JPG; IMG_0316.JPG; IMG_0318.JPG

s.22

Statement.

I was visiting s.22 / were all sitting around the main room table. I happen to be the north window. The weather outside was extremely windy and the power had flicked on and off a few times. I looked out the window and noticed flames in the distance. It was hard to tell exactly where the flames were but they were obviously quite close. I jumped up and pretty much yelled fire. We all ran outside to see what was going on. We walked up the hill closer to the fire. The fire was making its way down the hill towards our trailers at a slow (south) and at an aggressive pace (east) with the wind. I realized very quickly we all needed to leave the property. I ran back down to s.22 house down the hill, grabbed my backpack and then ran back up the hill to meet with everyone else so we could leave the property. At this point I quickly took a 10 second video which shows very clearly how the fire has progress and the trailer still intact.

I did not see power lines on the actual ground, there was simply too much smoke to see the ground (this can be seen in the video) although it did look as though the pole had a brace that gave way and possibly lowered the lines. I was quite panicked as was everyone else so again I think the video best describes the situation.

s.22 stayed behind about 5 min longer then I did. At this point I jumped into s.22 Van with him and s.22 and we drove to the edge of the property. The fire department had just shown up, we pointed them in the direction and said please save the trailers.

From the road it was clear the fire had already burned completely around the power lines (Picture included, the power line in view is not the one that had a support, the one with broke support is not in view), and still had yet to burn down any of our trailers. s.22 drove out roughly 5-10 min after us and said the fire had made it across the road and he wasn't sure if the fire department would be able to save the trailers.

We were asked to leave. The next time I saw the place everything had been burned to the ground.

s.22

I hope this was helpful, Sorry again for the wait.

s.22
Statement from
503 Wilson Mountain Rd.

Green, Darrell JAG:EX

From: s.22
Sent: Monday, August 24, 2015 19:09
To: Green, Darrell JAG:EX
Subject: Re: Wilson Mountain Fire

Aug 14 Was watching tv, got extreme gusts of wind and power went out and came back on about 3 or 4 seconds and out again. I thought a tree must of come down on power line or something. About 2 or 3 minutes later still sitting in my chair I looked across street towards power lines and saw fire (flames about 20 or possibly 30 ft tall) in the vicinity of the power pole or possibly under lines slightly to the west. I called #5555 at 6:10 p.m. and was put on hold so I called 9:11 at 6:13 p.m. according to the logs on my cell phone. Ran outside and was in truck to evacuate and noticed 2 big pine trees down, one across s.22 This happened in 2012 and 1 tree came down on power line into s.22 The pole is still leaning and lost 14 trees and one crushed barn and also ripped half the shingles off house. Wind from same direction. If s.22 is sheltered in a hollow can you imagine on the hill top how strong the wind could be? If there were no trees I would say that the wind caused the line to ground somehow, possibly by pole failure under extreme conditions. As I was leaving I noticed power lines appeared to be low and twisted to the west. I have always thought that there could be more power poles up the hill from the hwy and the one at the top had a lot of stress on it. I work for s.22

This is only my opinion but I hope it helps you,

Sincerely s.22

On Aug 24, 2015 2:30 PM, "Green, Darrell JAG:EX" <Darrell.Green@gov.bc.ca> wrote:

ii s.22

As discussed could you please send me a statement of what you witnessed from your home the day of the fire. Please include times noted on your phone. Thanks

Darrell Green

Fire Service Advisor – South East Region

OFFICE OF THE FIRE COMMISSIONER
Emergency Management BC

Location:

403 Vernon Street, Nelson B.C. V1L 4E6

Cell: s.17

Office: (250) 354-5941 / Fax: (250) 354-6561

OFC 24 hour contact number: 1-888-988-9488

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Green, Darrell TRAN:EX

From: s.22
Sent: Monday, August 24, 2015 14:03
To: Green, Darrell JAG:EX
Subject: FW: Wilson Mountain Fire

Darrell will this work for you

From: s.22
Sent: August-24-15 9:12 AM
To: s.22
Subject: Wilson Mountain Fire

- 18:16 Observed wildfire on south facing slope adjacent to 43L traveling up slope towards 43L
- 18:17 Called TCC to have 43L de-energized
- 18:22 TCC had 43L de-energized
- Approx 20 minutes later I travelled to site of the Fire on Patten Rd.
- When I arrived on site the fire was fully involved and I could not gain access to 43L or the residence

s.22

Statement & Evidence
from resident s.22

Green, Darrell TRAN:EX

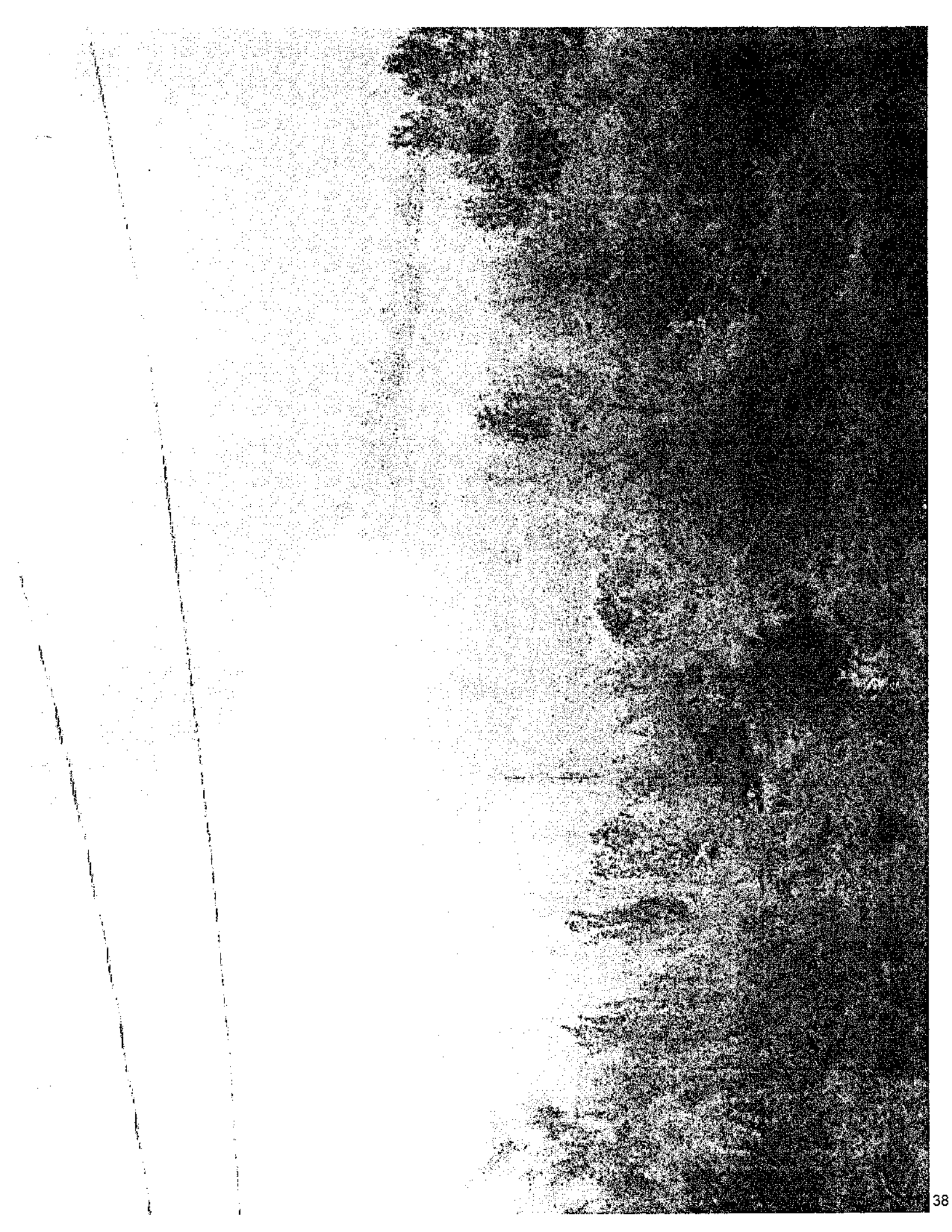
From: s.22
Sent: Wednesday, October 28, 2015 15:56
To: Green, Darrell TRAN:EX
Subject: Re: Fire photo

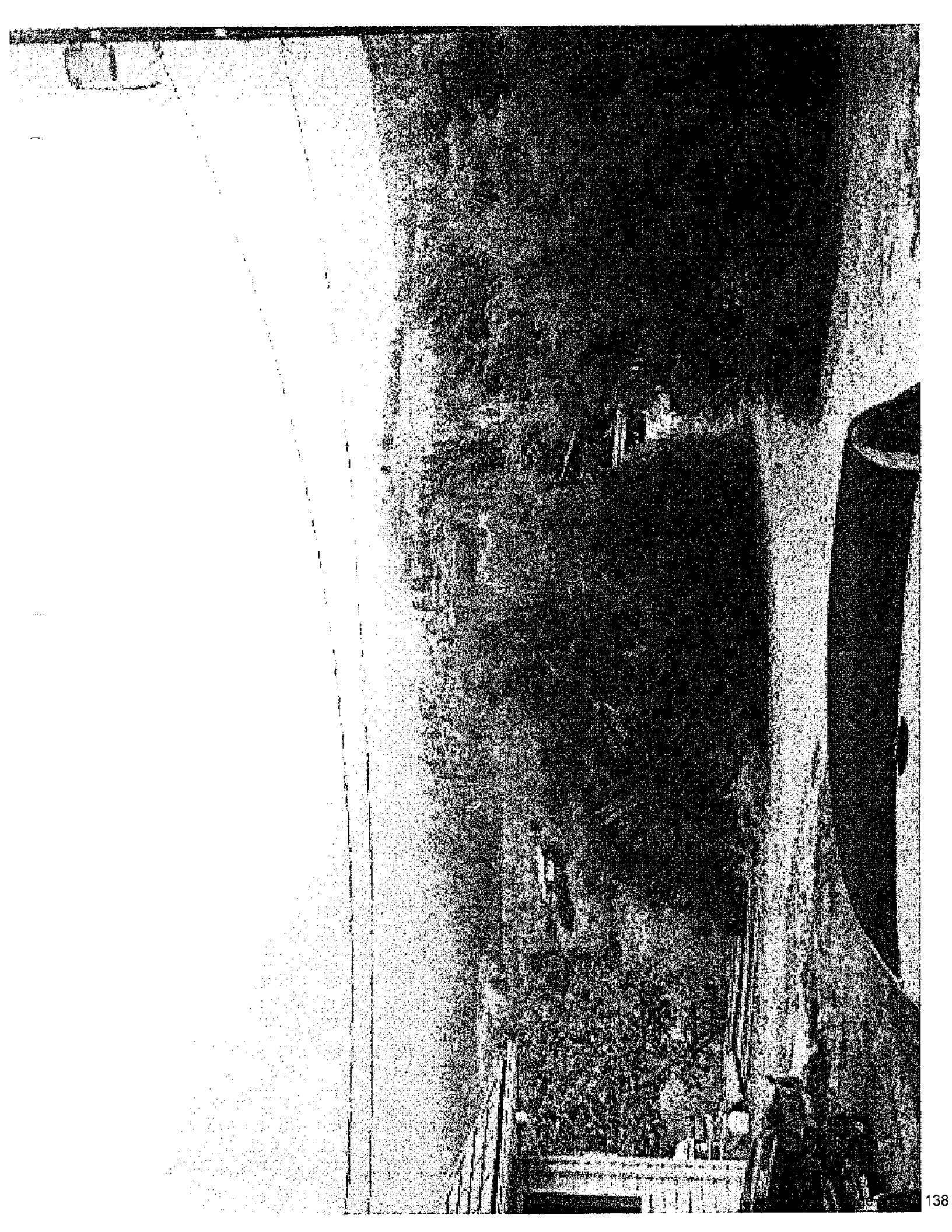
Hi Darrell, Just my first impressions. As s.22 were watching there was a sudden burst of flame that we all saw ... right by those two pine trees you can see in the first photo. My immediate thought was, since the wind was so strong, it could have been a latent scrub root smoldering from the recent lightening activity in our area that reignited due to the wind. However, giving it further thought, and from what local residents have said, there seems to have perhaps been a power line crossbar failure and a downed power line. That seems to make more sense given the 'burst' of flame. Again, just my impressions.

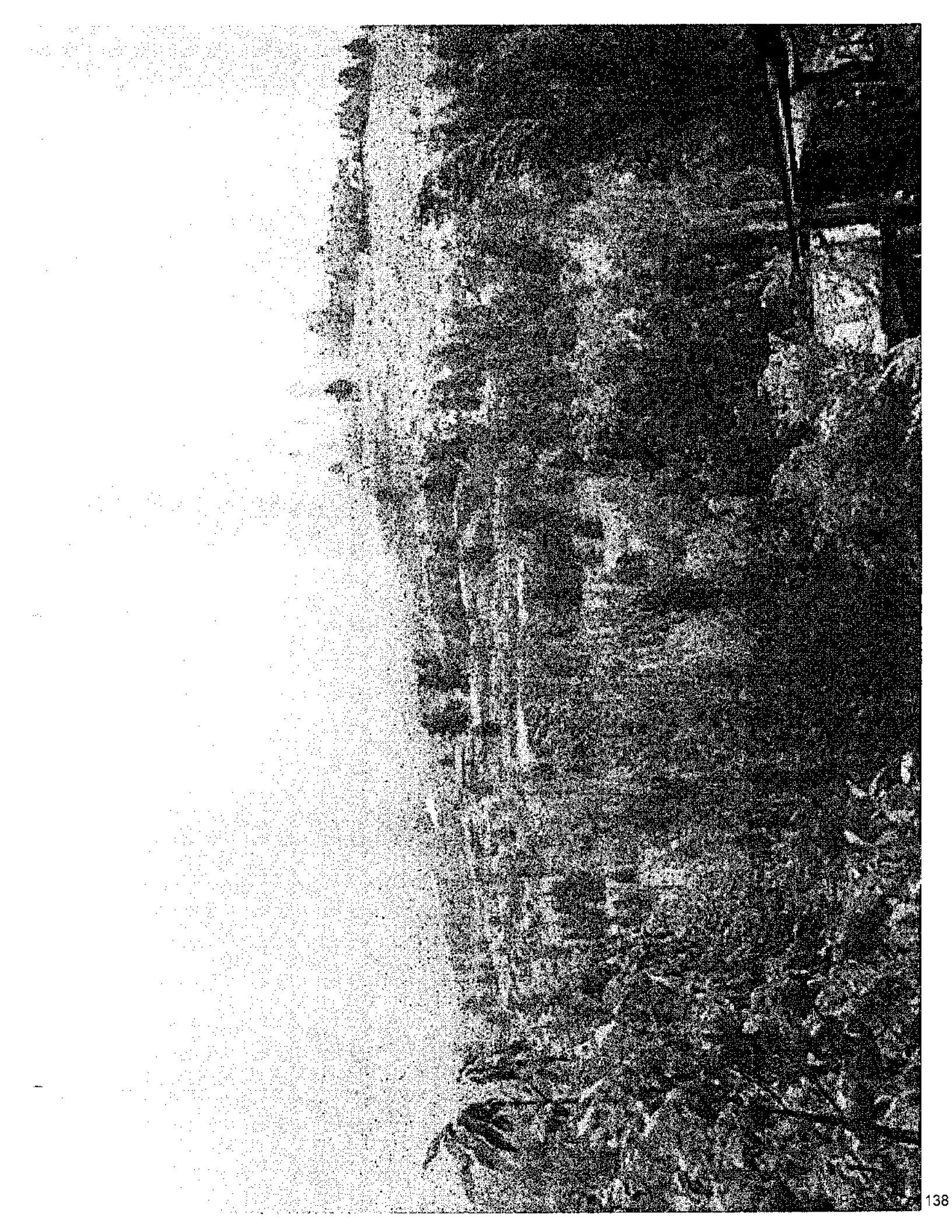
s.22

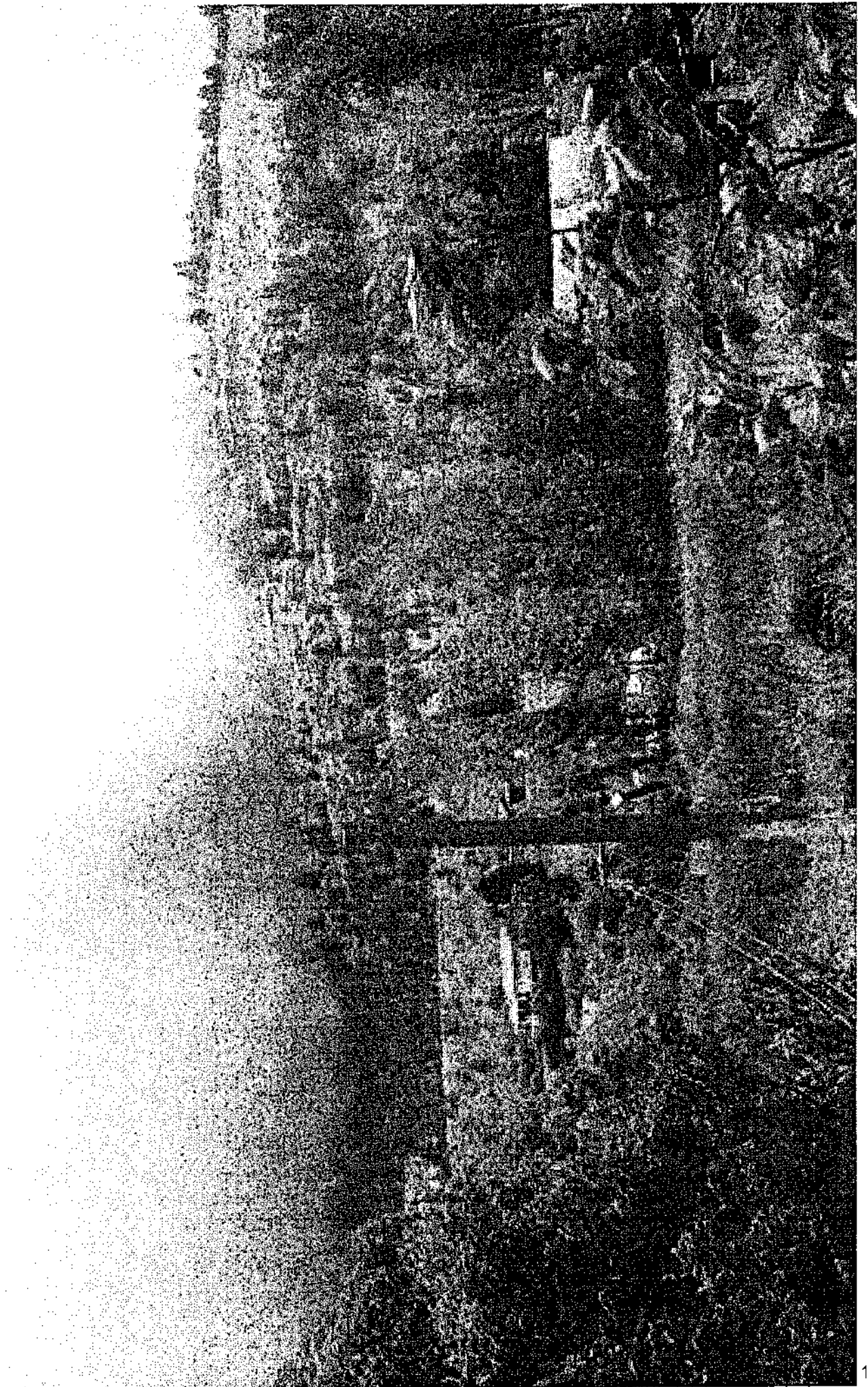
On 28-Oct-15, at 3:36 PM, Green, Darrell TRAN:EX wrote:

> Hi s.22
> Thanks for the photos. It definitely shows how quick the fire spread.
> Unfortunately though due to the distance it's hard to see what sparked
> the fire which is what I am trying to determine.
> Thanks very much for taking the time to talk with me and for sending
> the photo's
>
> Darrell Green
> Fire Service Advisor - South East Region OFFICE OF THE FIRE
> COMMISSIONER Emergency Management BC
>
> Location:
> 403 Vernon Street, Nelson B.C. V1L 4E6
>
> Cell: s.17
> Office: (250) 354-5941 / Fax: (250) 354-6561 OFC 24 hour contact
> number: 1-888-988-9488 This message is intended to assist in the
> understanding of the interpretation and requirements of the Fire
> Services Act and pursuant regulations. It is not intended to provide
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> this message may be sent to the Building and Safety Standards Branch.
>
>
> -----Original Message-----
> From: s.22
> Sent: Wednesday, October 28, 2015 15:20
> To: Green, Darrell TRAN:EX
> Subject: Fire photo
>
> This is moments after calling 911

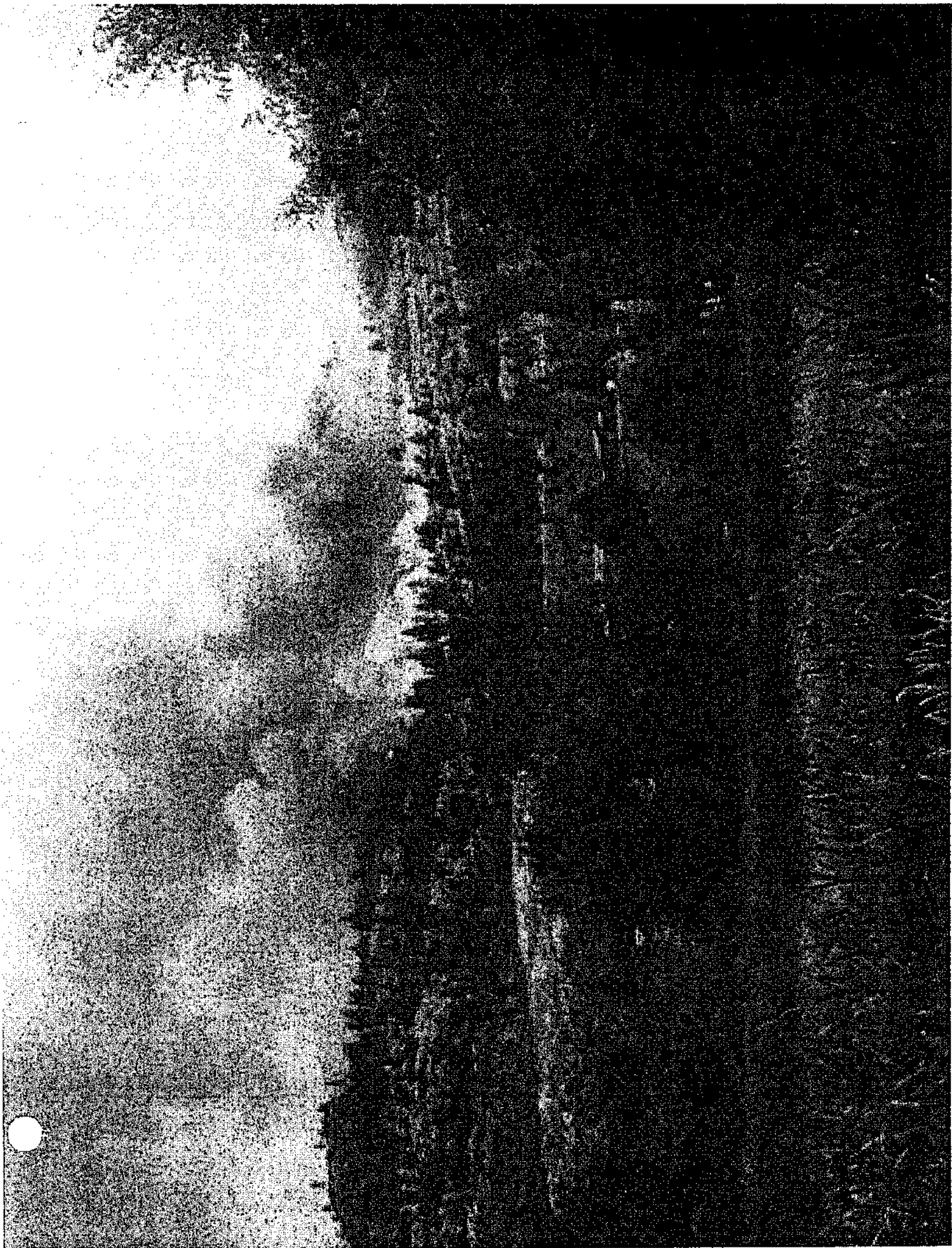












INCIDENT TIMES



Kelowna

Fire Department

INCIDENT REPORT

Location WILLOWBROOK RD, OLIVER, BC
Cross Street PATTEN RD

Incident Begin Time 2015-08-14 18:17:53
Incident End Time 2015-08-17 7:39:56
Response Time 2 Mins 17 Secs
Property Class [None selected]

Incident Type WILDFIRE/GRASS/BRUSH/OUTDOOR
Incident Number VOL201508141807
Submission Date

Command Established

Water Usage Gallons

Total # Rescues 0

Wind Direction

Command Location

Weather Conditions

Wind Speed 0

Venting Index

On Scene: Ambulance

BCAS File # 0

Environment File #

Forestry File #

Police

Police File # 0

COK Account #

Utility

EMBC Task # 0

CORD Account #

Caller s.22

Caller Phone

CAD Cellular

Dispatch Notes

UserName

TimeIndex

Details

SHRYNEW

2015/08/17 07:39:56

Transferred from CAD

SHRYNEW

2015/08/16 21:27:28

Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'.

SHRYNEW

2015/08/16 21:27:24

SEEING A FLARE UP OFF OF RD 20

SHRYNEW

2015/08/16 21:27:12

Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR'

SHRYNEW

2015/08/16 21:26:28

Change of mapped location

SHRYNEW

2015/08/16 21:26:26

Department assigned 'Oliver Fire Department'

AZIMORSK

2015/08/16 17:18:49

Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'.

AZIMORSK

2015/08/16 15:04:14

CALLER WAS S.22

AZIMORSK

2015/08/16 15:04:07

FIRE HAS BEEN BURNING IN THIS AREA SINCE ABOUT FRIDAY - UPDATE GIVEN AND OLIVER WILL DECIDE HOW TO PROCEED

AZIMORSK

2015/08/16 15:03:40

OLIVER ADVISED

AZIMORSK

2015/08/16 15:01:51

Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'.

AZIMORSK

2015/08/16 15:01:42

CALLER CALLING FOR LEIGHTON CRES AND THE HWY INDICATING SMOKE WAS BILLLOWING FROM THIS AREA ABOUT A HALF AN HOUR AGO

AZIMORSK

2015/08/16 14:57:43

Department assigned 'Oliver Fire Department'

AZIMORSK

2015/08/16 14:15:34

OLIVER ADVISED AND CALLING FORESTY

AZIMORSK

2015/08/16 14:13:35

FIRE APPROACHING STRUCTURES NEAR 4198 HWY 97

AZIMORSK

2015/08/16 08:42:08

OLIVER STATION ADVISED

AZIMORSK

2015/08/16 08:41:58

FIRE HEADED BACK DOWN TOWARDS 4114 HWY 97

AZIMORSK

2015/08/16 08:39:54

Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'.

AZIMORSK

2015/08/16 08:35:16

BETWEEN TWO BUS STOPS AND BEHIND 2ND FIRE HYDRANT

SHRYNEW

2015/08/15 21:57:03

Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'.

SHRYNEW

2015/08/15 21:56:47

Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR'



Kelowna

Fire Department

INCIDENT REPORT

SHRYNEW	2015/08/15 21:56:00	Change of mapped location
SHRYNEW	2015/08/15 21:56:00	Department assigned 'Oliver Fire Department'
SHRYNEW	2015/08/15 21:29:55	Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'
SHRYNEW	2015/08/15 21:29:45	Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR'
SHRYNEW	2015/08/15 21:29:11	Department assigned 'Osoyoos Fire Department'
SHRYNEW	2015/08/15 19:47:53	Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'
SHRYNEW	2015/08/15 19:47:34	Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR'
SHRYNEW	2015/08/15 19:47:13	Department assigned 'Oliver Fire Department'
SHRYNEW	2015/08/15 19:15:32	Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'
SHRYNEW	2015/08/15 19:15:05	Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR'
SHRYNEW	2015/08/15 19:14:34	Change of mapped location
SHRYNEW	2015/08/15 19:14:34	Department assigned 'Oliver Fire Department'
SHRYNEW	2015/08/15 18:42:14	ALSO REPORTS UP ABOVE LEIGHTON CRES
SHRYNEW	2015/08/15 18:40:05	REPORTING SMALL FIRES BEHIND MIKE'S AUTO IN THE HILLS -
SHRYNEW	2015/08/15 18:39:46	Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'
SHRYNEW	2015/08/15 18:37:39	Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR'
SHRYNEW	2015/08/15 18:37:30	Change of mapped location
SHRYNEW	2015/08/15 18:37:30	Department assigned 'Oliver Fire Department'
AZIMORSK	2015/08/15 16:39:30	STN 181 ADVISED
AZIMORSK	2015/08/15 16:38:19	FIRE IS COMING DOWN TOWARDS THE HOUSES NEAR 4198 97TH HWY
AZIMORSK	2015/08/15 16:37:45	Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'
AZIMORSK	2015/08/15 16:37:23	Department assigned 'Oliver Fire Department'
TSPRAGGE	2015/08/15 08:50:08	DC GRAHAM ADVISED FLARE UP AT NORTH END - REQ FORESTRY HELICOPTER - THEY ARE WORKING ON SOUTH - FORESTRY ADVISED
RZIMMERM	2015/08/15 07:10:22	UNIT 10 PATROLLING - WILL TELL US IF THEY WANT THE CHANNEL UP
RZIMMERM	2015/08/15 05:15:59	FAXED TO OK FALLS
RZIMMERM	2015/08/15 04:09:30	SPOKE WITH CHIEF SKAROS AND 2 UNITS 1) 10 W/ 2 AND 2) UNIT 1 W/ 2 OUT ON PATROL. RADIO CHECK AT 0700 HRS
RZIMMERM	2015/08/15 01:00:51	PUBLIC INFORMATION AND TO REGISTER FOR EVACUATIONS CALL 250-498-4985
RZIMMERM	2015/08/15 00:28:15	EVACUATIONS NOW TO RD 20
ASPARKS	2015/08/14 22:17:51	OLIVER RECEPTION CENTRE IS COMMUNITY CENTRE 6359 PARK DR
ASPARKS	2015/08/14 22:17:00	EOC SET UP IN PENTICTON AT RDOS OFFICE 101 MARTIN ST DIRECTOR IS MARK WOODS 809 2560
ASPARKS	2015/08/14 21:44:56	FORTIS ENROUTE
ASPARKS	2015/08/14 21:42:12	WILLOWBROOK CHIEF REQUEST FORTIS ATTEND PATTEN RD FOR LINES DOWN TO CONFIRM THEY ARE NOT LIVE
RZIMMERM	2015/08/14 21:26:41	EVACUATION ORDER FROM LEIGHTON CRES TO SPARTAN
RZIMMERM	2015/08/14 21:16:12	CHIEF ADVISED NO EVACUATION ORDER OR ALERT IN PLACE FOR OLIVER
JSPRINGER	2015/08/14 20:29:41	FIRE IS NOT THAT CLOSE TO THE MOBILE HOME PARK
JSPRINGER	2015/08/14 20:27:48	OLIVER CHIEF IS HEADED TO INVESTIGATE
ASPARKS	2015/08/14 20:24:06	CALLER AT TUMBLEWEED MHP SAYS PARK ON LAYTON CRES IS ONLY A FEW THOUSAND FEET FROM PARK. WORRIED ABOUT IMINENT DANGER. CALLER IS s_22
JSPRINGER	2015/08/14 20:16:04	Linked to incident 'BUSH: WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER'



Kelowna

Fire Department

INCIDENT REPORT

JSPRINGER	2015/08/14 20:14:01	Change of mapped location
JSPRINGER	2015/08/14 20:14:01	Department assigned 'Oliver Fire Department'
JSPRINGER	2015/08/14 20:05:48	WILLOWBROOK CHIEF IN COMMAND AT NORTH END
JSPRINGER	2015/08/14 20:04:41	OK FALLS IS ON THE NORTH END OF THE FIRE
JSPRINGER	2015/08/14 20:04:29	OLIVER IS MOVING TOWARDS THE SOUTH FLANK OF THE FIRE
JSPRINGER	2015/08/14 20:04:20	AND A FEW WILLOWBROOK TUCKS
JSPRINGER	2015/08/14 20:04:13	NORTH END OF FIRE - FORESTRY
JSPRINGER	2015/08/14 19:58:41	FIRE IS STARTING TO CREEP DOWN HILL TOWARDS HIGH SCHOOL
JSPRINGER	2015/08/14 19:54:23	NO INFORMATION LINE IS SET UP AT THIS TIME
JSPRINGER	2015/08/14 19:54:16	THEY ARE WORKING WITH FORESTRY AND STRUCTURAL DEPARTMENTS TO DEVELOP A PLAN
JSPRINGER	2015/08/14 19:53:56	THEY ARE WORKING ON GETTING INTEL FOR EVACUATION ZONES
JSPRINGER	2015/08/14 19:53:47	EOC DIRECTOR - s.17
JSPRINGER	2015/08/14 19:51:45	EOC 101 MARTIN ST PENTICTON
JSPRINGER	2015/08/14 19:50:33	OSOYOOS 192 HEADED BACKJ
JSPRINGER	2015/08/14 19:30:48	FORESTRY ARRIVING ON SCENE
JSPRINGER	2015/08/14 19:30:43	OK FALLS ON SCENE
SHRYNEW	2015/08/14 19:17:15	*****OSOYOOS STANDING BY STN. 101 WITH A PUMPER
JSPRINGER	2015/08/14 19:04:36	CHECKING FOR DOWNED LINES
JSPRINGER	2015/08/14 19:04:31	FORTIS ON SCENE
JSPRINGER	2015/08/14 19:03:28	MOST OF THE HOUSES IN THE EVACUATION AREA ARE CLEAR
THANIK	2015/08/14 18:59:15	E172 W/ 4 GUYS
JSPRINGER	2015/08/14 18:54:48	OLIVER WILL TRY TO STOP THE FIRE ON PATTEN ROAD
JSPRINGER	2015/08/14 18:53:42	COMMUNITY CENTER IN OLIVER IS OPEN FOR EVACUEES
JSPRINGER	2015/08/14 18:51:24	REQUESTING MUTUAL AID FROM OKANAGAN FALLS
THANIK	2015/08/14 18:51:20	REQUEST RCMP FOR CONTROLL OF VEHICLES AND PASSERSYS
JSPRINGER	2015/08/14 18:48:15	WIND IS CIRCLING AROUND
JSPRINGER	2015/08/14 18:48:12	FIRE IS BACK BURNING DOWN THE HILL
JSPRINGER	2015/08/14 18:48:05	FIRE DEPARTMENT IS DOING EVACUATIONS
JSPRINGER	2015/08/14 18:47:23	FORESTRY ADVISED
JSPRINGER	2015/08/14 18:46:21	REQUESTING ANY FORESTRY AIR SUPPORT IF AVAILABLE
JSPRINGER	2015/08/14 18:43:38	Incident with Reference 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' and ID 53919040 was merged into this incident.
JSPRINGER	2015/08/14 18:43:09	Incident with Reference 'BUSH: 466 WILSON MTN RD, OLIVER' and ID 53919393 was merged into this incident.
JSPRINGER	2015/08/14 18:41:47	Incident with Reference 'BUSH: SEACREST HILL RD, OLIVER/WILLOWBROOK RD, OLIVER' and ID 53920067 was merged into this incident.
RZIMMERM	2015/08/14 18:35:41	2ND CALLERS NAME: s.22
JSPRINGER	2015/08/14 18:34:13	s.22
RZIMMERM	2015/08/14 18:34:10	BCAS ADVISED
JSPRINGER	2015/08/14 18:34:03	*****RCMP ENROUTE
THANIK	2015/08/14 18:33:45	Address change from 1108 WILLOWBROOK RD, OLIVER to WILLOWBROOK RD, OLIVER/PATTEN RD, OLIVER
		NOTIFIED BCAS OF CREW TRAPPED



Kelowna

Fire Department

INCIDENT REPORT

RZIMMERM	2015/08/14 18:32:34	*****MERGED OTHER CALL WITH THIS AS IT IS NEAR SAWMILL LAKE - AND s.22 s.22 - RESIDENCE BEING EVACUATED
RZIMMERM	2015/08/14 18:32:04	Incident with Reference 'BUSH: WILLOWBROOK RD, OLIVER/FAIRVIEW RD, OLIVER' and ID 53922116 was merged into this incident.
JSPRINGER	2015/08/14 18:30:58	CREW TRAPPED WILSON PATTEN ROAD
RZIMMERM	2015/08/14 18:30:53	Address change from 3488 WILLOWBROOK RD, OLIVER to WILLOWBROOK RD, OLIVER/FAIRVIEW RD, OLIVER [Merged from Incident 'BUSH: WILLOWBROOK RD, OLIVER/FAIRVIEW RD, OLIVER' with ID of 53922116]
JSPRINGER	2015/08/14 18:30:47	RCMP REQUESTED TO ASSIST WITH EVACUATIONS
RZIMMERM	2015/08/14 18:30:16	*****THIS IS HALFWAY BWTN WILLOWBROOK RD AND SAWMILL LAKE [Merged from Incident 'BUSH: WILLOWBROOK RD, OLIVER/FAIRVIEW RD, OLIVER' with ID of 53922116]
THANIK	2015/08/14 18:30:10	Incident dispatcher Assigned: 00001 [Merged from Incident 'BUSH: WILLOWBROOK RD, OLIVER/FAIRVIEW RD, OLIVER' with ID of 53922116]
THANIK	2015/08/14 18:30:10	Dispatch acknowledged Incident. [Merged from Incident 'BUSH: WILLOWBROOK RD, OLIVER/FAIRVIEW RD, OLIVER' with ID of 53922116]
RZIMMERM	2015/08/14 18:28:11	CALLER LOOKING DOWN FROM THIS LOCATION ABOUT 2 KM - GRASS FIRE NEAR SAWMILL ALKE AND WHERE s.22 LIVES - CALLER IS PICKING UP THE RESIDENCE HOMEOWNER NOW TO BRING THEM TO SAFETY [Merged from Incident 'BUSH: WILLOWBROOK RD, OLIVER/FAIRVIEW RD, OLIVER' with ID of 53922116]
SHRYNEW	2015/08/14 18:27:42	IncidentType changed from 'SMOKE: SMOKE' to 'Z - MINOR: Z - MINOR (SMOKE) NO RESPONSE' [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
RZIMMERM	2015/08/14 18:27:29	Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR' [Merged from Incident 'BUSH: WILLOWBROOK RD, OLIVER/FAIRVIEW RD, OLIVER' with ID of 53922116]
JSPRINGER	2015/08/14 18:27:26	FLAMES VISIBLE
RZIMMERM	2015/08/14 18:27:26	Address change from BLANK Address to 3488 FAIRVIEW RD, OLIVER [Merged from Incident 'BUSH: WILLOWBROOK RD, OLIVER/FAIRVIEW RD, OLIVER' with ID of 53922116]
SHRYNEW	2015/08/14 18:27:01	Linked to Incident 'SMOKE: 3395 WILLOWBROOK RD, OLIVER'. [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
SHRYNEW	2015/08/14 18:27:01	Change from blank address to Change from 3395 WILLOWBROOK RD, OLIVER [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
SHRYNEW	2015/08/14 18:26:49	*****CALLER REPORTING MOSTLY SMOKE NOW - NOT SO MUCH FLAMES***** [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
SHRYNEW	2015/08/14 18:26:24	Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR' [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
SHRYNEW	2015/08/14 18:25:58	Change of mapped location [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
SHRYNEW	2015/08/14 18:25:58	Department assigned 'Oliver Fire Department' [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
ASPARKS	2015/08/14 18:22:10	****CALLER AT s.22 SAYS FIRE IS 1000 FT FROM HOME AND HE IS EVACUATING [Merged from Incident 'BUSH: SEACREST HILL RD, OLIVER/WILLOWBROOK RD, OLIVER' with ID of 53920067]
RZIMMERM	2015/08/14 18:22:07	FORESTRY IS AWARE [Merged from Incident 'BUSH: SEACREST HILL RD, OLIVER/WILLOWBROOK RD, OLIVER' with ID of 53920067]
THANIK	2015/08/14 18:21:58	Linked to incident 'SMOKE: 3395 WILLOWBROOK RD, OLIVER'. [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
THANIK	2015/08/14 18:21:58	Change from 7586 ISLAND RD, OLIVER to Change from 3395 WILLOWBROOK RD, OLIVER [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
RZIMMERM	2015/08/14 18:21:09	*****SEE ACCESS - THE LOCATION I BUILT IT FOR MIGHT BE TOO HIGH***** [Merged from Incident 'BUSH: SEACREST HILL RD, OLIVER/WILLOWBROOK RD, OLIVER' with ID of 53920067]
THANIK	2015/08/14 18:20:48	Linked to incident 'BUSH: 1108 WILLOWBROOK RD, OLIVER'.





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INCIDENT REPORT

RZIMMERM	2015/08/14 18:15:19	Department assigned 'Oliver Fire Department' [Merged from Incident 'BUSH: SEACREST HILL RD, OLIVER/WILLOWBROOK RD, OLIVER' with ID of 53920067]
THANIK	2015/08/14 18:15:16	Change of mapped location [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
THANIK	2015/08/14 18:15:16	Department assigned 'Oliver Fire Department' [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
THANIK	2015/08/14 18:14:46	Department assigned 'Oliver Fire Department' [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
THANIK	2015/08/14 18:14:26	466 WILSON MTN RD [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
RZIMMERM	2015/08/14 18:14:12	Address change from BLANK Address to SEACREST HILL RD, OLIVER/WILLOWBROOK RD, OLIVER [Merged from Incident 'BUSH: SEACREST HILL RD, OLIVER/WILLOWBROOK RD, OLIVER' with ID of 53920067]
RZIMMERM	2015/08/14 18:14:12	Department assigned 'Willowbrook Volunteer Fire Department' [Merged from Incident 'BUSH: SEACREST HILL RD, OLIVER/WILLOWBROOK RD, OLIVER' with ID of 53920067]
SHRYNEW	2015/08/14 18:14:04	Incident with Reference 'BUSH: ' and ID 53919588 was merged into this incident. [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
ASPARKS	2015/08/14 18:14:00	2ND CALLER s.22 [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
RZIMMERM	2015/08/14 18:13:42	Change of mapped location [Merged from Incident 'BUSH: SEACREST HILL RD, OLIVER/WILLOWBROOK RD, OLIVER' with ID of 53920067]
SHRYNEW	2015/08/14 18:13:41	Incident dispatcher Assigned: 00003 [Merged from Incident 'BUSH: ' with ID of 53919588] [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:13:41	Dispatch acknowledged incident. [Merged from Incident 'BUSH: ' with ID of 53919588] [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
ASPARKS	2015/08/14 18:13:37	WILSON [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:13:05	Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR' [Merged from Incident 'BUSH: ' with ID of 53919588] [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:12:50	Change of mapped location [Merged from Incident 'BUSH: ' with ID of 53919588] [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:12:50	Department assigned 'Oliver Fire Department' [Merged from Incident 'BUSH: ' with ID of 53919588] [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:12:08	Incident dispatcher Assigned: 00003 [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:12:08	Dispatch acknowledged Incident. [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:12:04	TRAILER AND [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:12:01	100 FT FROM STRUCTURE [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:11:44	Initial incident type selected 'BUSH WILDFIRE/GRASS/BRUSH/OUTDOOR' [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:11:41	Address change from BLANK Address to 466 WILSON MTN RD, OLIVER [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:11:41	Street: WILSON MTN RD, OLIVER, BC selected from Alias: WILSON MOUNTAIN RD [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:11:11	Change of mapped location [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
SHRYNEW	2015/08/14 18:11:11	Department assigned 'Oliver Fire Department' [Merged from Incident 'BUSH: 466 WILSON MTN RD, OLIVER' with ID of 53919393]
JSPRINGER	2015/08/14 18:10:40	Incident dispatcher Assigned: 00002 [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]



Kelowna

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INCIDENT REPORT

JSPRINGER	2015/08/14 18:10:40	Dispatch acknowledged incident. [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
JSPRINGER	2015/08/14 18:10:34	SINGLE CALL INTO FORESTRY REPORTING SMOKE SOMEWHERE IN WILLOWBROOK (Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
JSPRINGER	2015/08/14 18:10:16	Initial incident type selected 'SMOKE SMOKE' [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
JSPRINGER	2015/08/14 18:10:11	Address change from BLANK Address to 3395 WILLOWBROOK RD, OLIVER [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
JSPRINGER	2015/08/14 18:10:11	Location selected from named location: 'FIRE STN 251 WILLOWBROOK' [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
JSPRINGER	2015/08/14 18:10:11	Department assigned 'Willowbrook Volunteer Fire Department' [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]
JSPRINGER	2015/08/14 18:10:07	Change of mapped location [Merged from Incident 'Z - MINOR: 3395 WILLOWBROOK RD, OLIVER' with ID of 53919040]

Apparatus	Committed	Dispatched	On Route	On Scene	Return to Service	Return to Quarters
General Alarm 181 S	2015-08-14 18:19:49	2015-08-14 18:20:35				
Engine 182	2015-08-14 18:19:49	2015-08-14 18:40:29	2015-08-14 18:40:33	2015-08-14 18:42:46	2015-08-14 19:46:51	2015/08/14 19:46:51
Engine 181	2015-08-14 18:19:49	2015-08-14 18:40:32	2015-08-14 18:40:32	2015-08-14 18:42:46	2015-08-15 7:10:51	2015/08/15 07:10:51
Water Tender 171	2015-08-14 18:19:49	2015-08-14 18:51:45				
Engine 171	2015-08-14 18:19:49	2015-08-14 18:51:51				
Engine 172	2015-08-14 18:19:49	2015-08-14 18:58:36	2015-08-14 18:59:04	2015-08-14 19:30:39	2015-08-15 1:30:35	2015/08/15 03:11:28
Bush 187	2015-08-14 18:19:49	2015-08-14 19:42:45	2015-08-14 19:42:46	2015-08-14 19:42:46	2015-08-15 4:09:54	2015/08/15 04:09:54
Rescue 185	2015-08-14 18:19:49	2015-08-15 0:27:24	2015-08-15 0:27:27	2015-08-15 0:27:30	2015-08-15 4:09:58	2015/08/15 04:09:59
Duty 181	2015-08-14 18:19:49	2015-08-15 7:10:47	2015-08-15 7:10:48	2015-08-15 7:10:49	2015-08-17 7:39:39	2015/08/17 07:39:40

FIELD NOTES

**AUTHORIZATION AND RELEASE
REGARDING DISCLOSURE OF INFORMATION**

TO:

☒ FortisBC Inc. (electric utility)
☐ FortisBC Energy Inc. (mainland natural gas utility)

Please mark an "X" beside the company you are requesting information from, such company hereinafter referred to as "FortisBC".

I, s.22

(name) hereby authorize FortisBC to

provide information which may include my personal information (ie. consumption records, account information, contact information) (the "information") to

Doreen Green - officer of the fire commission (person, organization or firm to whom the information is to be sent) (the "Recipient").

I, s.22

(name) release FortisBC and its

respective successors, heirs, executors and assigns and each of them from all liabilities, causes of action, claims, proceedings, suits, costs, demands, obligations, duties and damages of whatever nature or kind, whether at law or at equity that I may have with respect to the disclosure of the information to the Recipient.

Signed this 26 day of October, 2015

s.22

**AUTHORIZATION AND RELEASE
REGARDING DISCLOSURE OF INFORMATION**

TO:

☒ FortisBC Inc. (electric utility)
☐ FortisBC Energy Inc. (mainland natural gas utility)

Please mark an "X" beside the company you are requesting information from, such company hereinafter referred to as "FortisBC".

s.22

I, _____ (name) hereby authorize FortisBC to provide information which may include my personal information (ie. consumption records, account information, contact information) (the "information") to Darrell Green - Office of the (person, organization or firm to whom the information is to be sent) (the "Recipient").
Fire Commissioner

I, DARRELL GREEN (name) release FortisBC and its respective successors, heirs, executors and assigns and each of them from all liabilities, causes of action, claims, proceedings, suits, costs, demands, obligations, duties and damages of whatever nature or kind, whether at law or at equity that I may have with respect to the disclosure of the information to the Recipient.

Signed this 22 day of OCT, 2015.
s.22

Please print name

Please print name

FIRE INCIDENT FIELD NOTES

Agency: OFC

File No: _____

TYPE OF OCCUPANCY

Location/ Address	<u>466 Wilson Mountain Rd</u>					
Property Description	Structure	Residential	Commercial	Vehicle	Wildland	Other
Other Relevant Info	<u>Residential property interface with wildland</u>					

WEATHER CONDITIONS

Indicate Relevant Weather Information	Visibility	Rel. humidity	GPS	Elevation	Lightning
	Temperature	Wind direction	Wind speed	Precipitation	
			<u>20-40 km</u>		<u>None reported</u>

OWNER

Name	<u>s.22</u>	DOB	<u>Unknown</u>
d/b/a (if applicable)			
Address	<u>466 Wilson Mountain Rd</u>		
Telephone	Home	Business	Cellular
	<u>Unknown</u>		

OCCUPANT

Name	<u>s.22</u>	DOB	
d/b/a (if applicable)			
Permanent Address			
Temporary Address			
Telephone	Home	Business	Cellular

DISCOVERED BY

Incident Discovered by	Name	DOB
Address		
Telephone	Home	Business

FIGURE A.15.3.2(a) Sample Form for Collecting Fire Incident Field Data.

FIRE INCIDENT FIELD NOTES (Continued)

File No: _____

REPORTED BY

Incident Reported by	Name	DOB
Address		
Telephone	Home	Business
		Cellular

INVESTIGATION INITIATION

Request Date and Time	Date of request	Time of request
	Aug 16 2015	11.09
Investigation Requested by	Agency name	Contact person/Telephone no.
	Kennelops Fire Centre	Brax Little
Request Received by	Agency name	Contact person/Telephone no.
	OFF	Bob Cooper

SCENE INFORMATION

Arrival Information	Date	Time	Comments
	Aug 17	2.14.20	
Scene Secured	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Securing agency	Manner of security
		Rump	Posted Guard
Authority to Enter	Contemporaneous to exigency	Consent	Warrant
		Written <input type="checkbox"/> Verbal <input type="checkbox"/>	Admin. <input type="checkbox"/> Crim. <input type="checkbox"/> Other <input type="checkbox"/>
Departure Information	Date	Time	Comments
	Aug 18	14.00	

OTHER AGENCIES INVOLVED

	Dept. or Agency Name	Incident No.	Contact Person/Phone
Primary Fire Department			
Secondary Fire Department(s)			
Law Enforcement	Rump		Sean Hall
Private Investigators	BCWILZ Electric		Steve Grimaldi Rick Frick
BCSA			

ADDITIONAL REMARKS

Nick

Koshon Contracting

Do you have the account
#s for your services

one at bunker

and one at work area.

Need to for process of
elimination.

Get call log from Chief
& statement from
reporting officer.

s.22

Sent text.

s.22

witness

witness

Contact Chief.

arrived on scene at 2:20 pm
mon Aug 17

Br. Safety James

10 am

250 218 - 1754

Steve 604 309 0014
WF

Rick Frick Electric Safety
250 488 0686 officer

Rachel Cox - Rump
250 498 3422

Witness
s.22

Call Fortress - 1 866 431 7847
office computer

Owner -
s.22

s.22

Rump
heat person

//

Questions

- Who reported fire? Statement?
- Who lived at property and where?
- Who was at property at time of fire?
- Was there any sort of operation going on at time of fire?
- Diagram showing who lived where.

Steve

- aerial photo

s.22

W. Trase

s.22

They are saying pole broke

Sources of ignition

- electrical
- lightning
- arc from power line
- mechanical
- human cause

s.22

- Fire witnessed from Fortis office
in office - View to Fire location -
Power shut down
Nothing indicated that power line
came down and stated that
poles had been burnt through.
Fire noticed to be contained

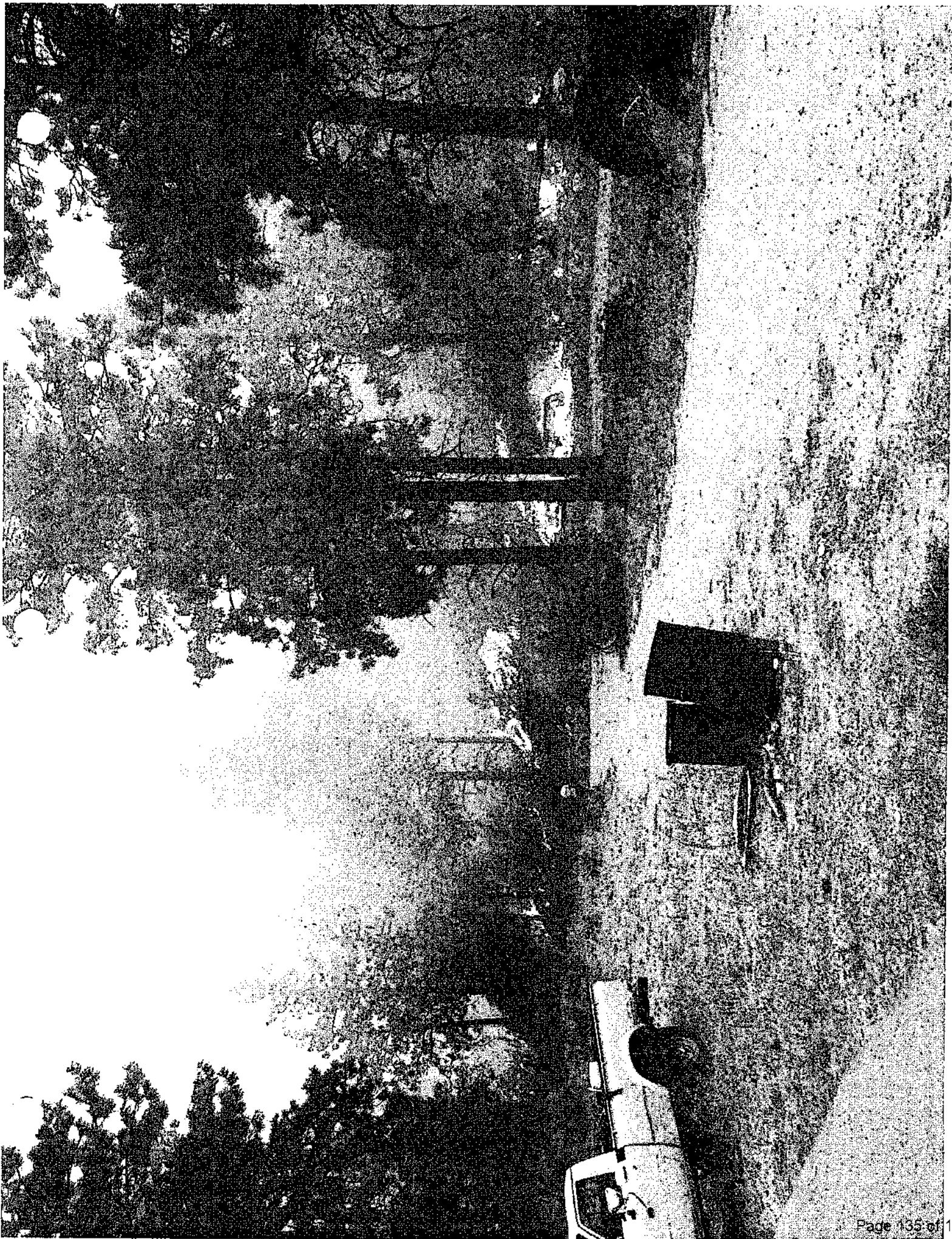
Fire officer - Fortis

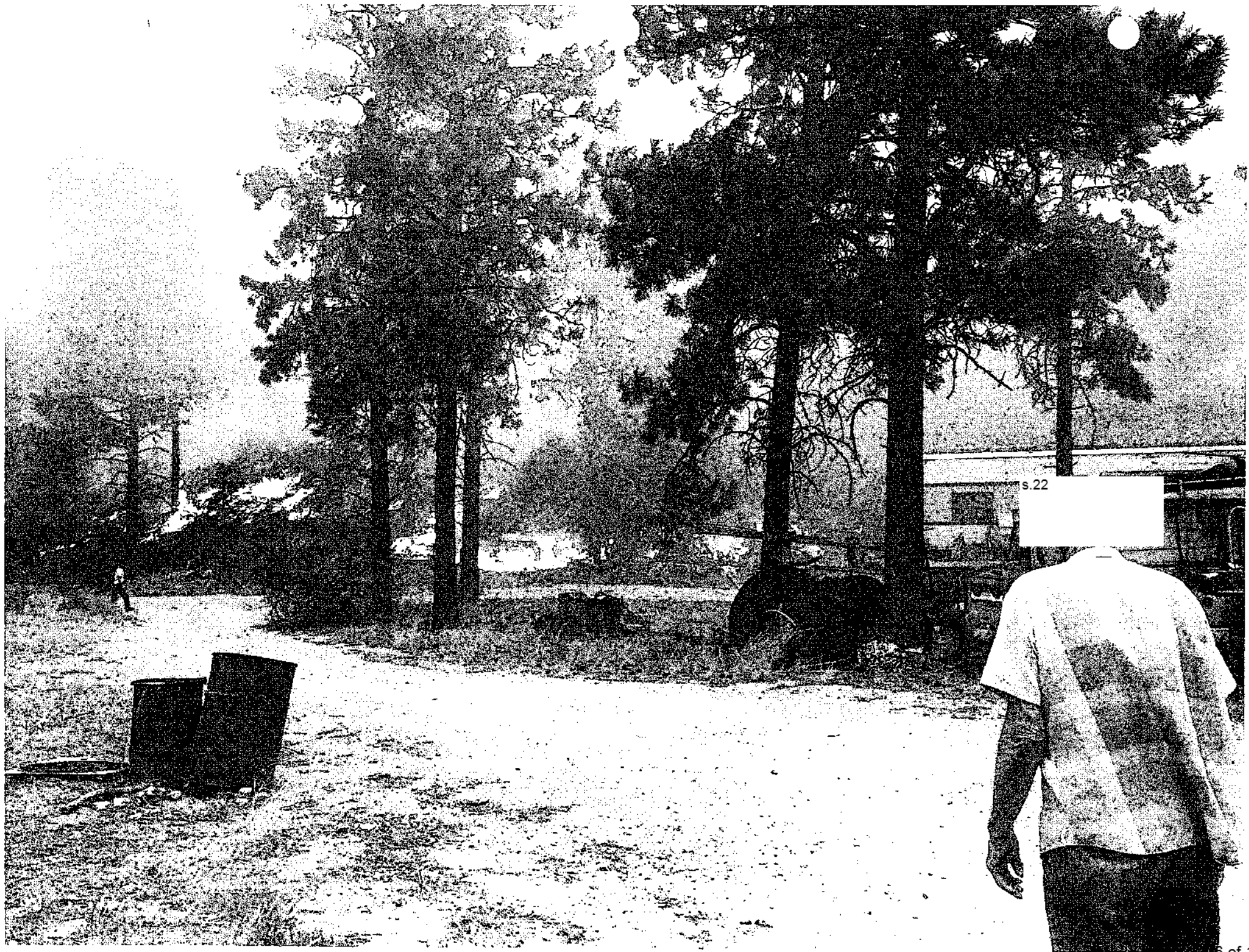
AL Deim - 770-3700
BB Aerial photo.

Steve Gironaldi @ gowling.ca
604-309 0044

Talk to local Crow
SC Seizing evidence

PICTURES





s.22



