

00

OPERATION PLUMBER
OFF-SITE RAD-SAFE STG

XV

St. George, Utah

BEST COPY AVAILABLE

LOG OF ACTIVITIES OF T. J. SHARPE, ZONE COMMANDER, ST. GEORGE, UTAH

6-14-57: Arrived in St. George, Utah about 9:30 PM. Contacted Tony Marchaise and Dr. Murray T. Pritchard.

6-15-57: Discusses the St. George zone work with Tony Marchaise and Dr. Pritchard.

6-16-57: Activities were routine. Check in at 1630. Discussed further the zone work with Dr. Pritchard.

6-17-57: Most of the day was devoted to the distribution of "Atomic Tests In Nevada" to service stations in St. George. All the managers were cooperative, and indicated that they would distribute them to interested persons.

Some of these booklets were also left with the chamber of Commerce. Mrs. Kate B. Empey who is employed by the St. George chamber of Commerce ask if films were available for group meetings and she was advised that films were available and that we would be glad to obtain one or more for group showings if and when a request is made.

The monitor from Mosquite contacted Dr. Pritchard and myself regarding film badge worn by ^{we} were unable to locate him, but Mr. Roy Renauf, Sheriff of Washington County, gave us information as to his residence. Our discussion with Sheriff Renauf was very pleasant and he assured us of his full cooperation in our activities.

Other activities of the day were routine.

6-18-57: Wilson detonated at 0445MST. visible but no sounds. We monitored the St. George area, including hwy. #18 to Enterprise. Only background was observed. Station was operated routinely.

6-19-57: Station was operated routinely. Booklets "Atomic Tests In Nevada" were distributed to the restaurants in St. George. Film badge was collected from ^{at} 1000.

6-20-57: Most of day spent in getting samples ready for pick up by courier. Mr. Minshaw picked up samples at 1730.

6-21-57: Message received from Station #10, asking additional information on film badge station locations (total 23). The records did not give the information requested, so it was necessary to visit to visit each film badge station location in question. Visits were made to film badge stations located on Motoqua road and Nelson ranch.

6-22-57: Made trip to Yanab, Orderville, Mt. Carmal Junction, Zion National Park, and Hurricane to obtain information on film badge location. Talked with P. W. Ryder, Wilfred Heaton, Yanab school custodians, about film badge locations. Conversed also with Mrs. Rachel Hindley, school secretary.

At Orderville, Mr. H. L. Chamberlain gave information on film badge location. Miss Gleave, kindergarten teacher, at Valley School in Orderville ask several questions about the atomic tests and fallout, so we gave her a booklet "Atomic Tests in Nevada". A supply of the booklets were left at Crafts store in Orderville.

Information was also collected for DIRECTORY.

6-23-57: Message: Shot is postponed. Activities were routine.

6-24-57: Priscilla was detonated. Operated station routinely. Monitored St. George area, hwy. 91 to Arizona state line, highway #13 to Veyo, Interprise, Bery, and over to New Castle. Fallout was very light in St. George, increasing up to Veyo, then decreasing until very low at Beryl. Fallout recorded was highest at Veyo, which was only 7.38 mr/hr at 1635. St. George had only 0.13 mr/hr. at 2115.

6-25-57: Samples were prepared for courier. Mr. Meridith took them to Mercury. Further monitoring was done in St. George, but only background was observed. Traveled to Gunlock to get information on film badge locations. Talked with Mrs Leavitt, school teacher, who gave us necessary information on film badge locations at the school. She also gave information for DIRECTORY.

Mr. Caraway stopped by to see us on his way to Beaver.

6-26-57: Dr. Larson picked up remaining samples from shot "Priscilla". We visited New Harmony to get information on film badge locations. We had a very nice conversation with Mr. Hammond and Bishop Hall. Considerable time was spent in visiting and gathering information on film badge locations in St. George.

Mr. Leroy J. Bailey, chemist, contacted us at Rugged West Motel. He was rather talkative and ask questions relative to our radio frequency, damage done by last bomb and how large the next shot was going to be. Naturally, we gave him no information on radio frequency or size of next shot, and that the only thing we knew about damage done by last bomb at control tower was what we had read in the newspapers as he had done, and had no information as to damage done.

6-27-57: Reported to Station #10 information on film badge locations which had been requested. Other activities were routine.

6-28-57: Diable was postponed. Checked in at about 1600. All 200 units were given 10-7 until Sunday 0900. Other activities routine.

Met Mr. Kahle, St. George Radio Station manager, and he ask if it were possible to get permission to see a shot at the Nevada Test Site, and I advised him that I would try to get him this information for him.

6-29-57: 10-7.

6-30-57: Checked in at 0900 and was given permission to 10-7 until 0900 Monday.

7-1-57: Routine operation of station. H. V. operated due to safety shot. Advised net control that Mr. Kahle, St. George Radio Station, would like to see "close-up" shot, if possible. Net Control advised that information about this would be given later.

Mr. Leroy J. Baily, chemist, of Washington, Utah, telephoned Dr. Murray Pritchard that a woman of Washington, Utah, was telling her neighbors and acquaintances that she had received radiation burns while collecting flowers in the desert near Glendale.

7-2-57: Station #10 was advised that Mr. Baily had reported that [redacted] claimed she had received radiation burns. Station #10 advised us to contact [redacted], which we did. [redacted] told Dr. Pritchard and myself that she and her daughter was picking desert cactus on June 21, 1957 in the desert near and just east of Glendale. After spending a few hours in the desert they headed for Washington, Utah, where they live. As they approached Santa Clara, [redacted] says that the exposed parts of her body began to itch terrificly and that small blister like eruptions appeared. Some evidence of some type of eruption was still noticable. She wonders if fallout could have caused this itching and burning. When ask if she would like to talk with Dr. van der Smissen she said that she would like to talk with him, so we advised her that we would try to make an appointment. Other activities were routine.

7-3-57: Reported results of conversation with Mrs. Lester Iverson to Station #10. Visited and discusses monitoring activities with E. Segal and Walter Robohn at Cedar City.

7-4-57: Message: Shot on for July 5, 1957. Activities routine. Discussed monitoring activities with Robohn and Segal.

7-5-57: Hood detonated. Monitored U 18 to Enterprise. Monitored in the St. George area. No fallout was found. Operated station in routine manner.

7-6-57: Station operated routinely. Dr. Roy Mackens, monitor, arrived from Mercury to assist in film badge exchange. Plans were formulated and discussed for film badge exchange.

7-7-57: Film badge exchange work was done on Hwg. 91 to Arizona state line and Hwg. 18 to Enterprise, including Central, Veyo and Enterprise. Plans were formulated and discussed for work to be done the following day. Dr. Pritchard, Dr. Mackens and I worked together on today's film badge pick-up.

7-8-57: Dr. Pritchard and Dr. Mackens exchanged film badges in Kanab, and Zion area. I worked on film badge exchange in St. George area.

Dr. van der Smissen and Dr. Ingram contacted me in St. George. We first contacted Dr. McGregor, McGregor Clinic, in St. George, then we visited [redacted] in Washington, Utah. Dr. van der Smissen and Dr. Ingram discussed [redacted] complaint with her.

7-9-57: Dr. Pritchard and Dr. Mackens worked on film badge exchange in Hurricane and that general area. I exchanged film badges in the Gunlock, Motoqua, and St. George area.

7-10-57: Concluded film badge exchange in our area. The records were completed and film badges were sent to Mercury, together with shot samples, by Dr. Mackens.

PRIVACY ACT MATERIAL REMOVED

7-11-57: We contacted Sheriff Roy Renouf to get information in an effort to find a _____ to pick up film badge, but found that he does not live in St. George. Mr. Renouf thinks that he may live in Mosquite.

Sheriff Renouf gave us some information on the number of people located at some of the ranches throughout Washington County. Exchanged remainder of film badges in our area. Other activities were routine.

7-12-57: Gathered information for the DIRECTORY in Hurricane, Virgin, Rockville, Leeds, Anderson Junction and other communities in that area.

Issued film badge to _____ Christensen, Rockville, Utah, who had requested one through station 212, Cedar City. _____ was not at home, but badge left with his wife. Other activities were only routine,

7-13-57: Message : Shot is on. Next W. B. 2200. Std. by 2200.
Message : Shot is Postponed.
Other activities routine.

7-14-57: Message; Shot is on. Next W. B. 0300. Std. by 0330.
Days activities routine.

7-15-57: Shot "Deablo", #VIII, was detonated. Station was operated in routine manner. Monitored St. George area and Hwg. 18 to Interprise, but only background radiation was found. No fall out was found.

Contacted Mr. Keith Hughes, Agriculture Agent, who gave us information on population of ranches in Washington County. Mr. Hughes was found to be very cooperative. He ask some questions about our program. In addition to answering his questions we gave him several copies of "Atomic Tests In Nevada"- one for his personal use and the others to be distributed to interested persons.

7-16-57: Issued film badge to _____, who had requested one to wear. Location 15 mi S. W. Santa Clara.

List of Towns and Communities together with populations in Washington County was prepared and forwarded to Mercury with samples from shot No.VIII.

Other activities routine.
Message: Shot IX postponed.

7-17-57: Made trip to Kanab, Utah, to get additional information for DIRECTORY.- Talked with Mr. Riggs, Recorder, who gave us information on the population of the very small communities and ranches in Kane County. We found him to be very cooperative and interesting to talk with.

Contacted _____, Rockville, and found that he was happy to get a film badge to wear.

Message: Shot is on. Std. by 0600.

7-18-57: Message: Shot is Postponed.

Visited with St. George Lions Club. Did not appear on program, but was introduced as a visitor. Discussed my work in St. George with several individual members of the club. There were no unfavorable comments on our program.

Other activities routine.

PRIVACY ACT MATERIAL REMOVED

7-18-57: Shot "John" (IX) was detonated at 0700. Station was operated as requested-- H. V. air sampler and hourly readings with IX-5. No fall/was found in the St. George area.

Equipment moved from Rugged West Motel to apartment at 30 West 100 North.

Talked with Rev. Braun, Baptist Minister, In our discussion he mentioned that ~~xxxxxx~~ people sometimes blamed the fall-out for their ailments. He mentioned one lady who said she could feel it on her arms. Rev. Braun had no criticism of our program and conversation was only routine.

Traveled to Mosquite to pick up supplies for St. George, Cedar City and Beaver. Carraway picked up supplies for Cedar City and Beaver at 2330.

Message 1630- shot postponed. Std. by 1600 tomorrow.

7-20-57: Message: 1630- shot postponed. Std. by 1630 tomorrow. Activities routine. Both HV's gave out. New brushes were purchased and installed in one and placed back in service.

Shot "Owen" is on. (X)

7-21-57: Message: 1630/-~~xxxxxxxxxxxx~~. Std. by 2200.

Message: 2230 shot is on. Std. by 0600 tomorrow. Activities only routine.

7-22-57: Message: 0600 - Shot is postponed. Std. by 1630. Activities routine.

7-23-57: Message: 1640 - Shot is on. Owen at 0630, ballon shot. Kepler at 0450, tower shot. One or the other will be fired. W. B. at 2200. Std by 2230. Message from Station -10, check cont. recorders for time and state location. Message: 2245 - Shot is on for Kepler at 0450. Slight possibility Owen may be substituted. Predicted fallout 24 . W. B. 0300. Std. by 0400.

7-24-57: Kepler was detonated at 0450. Monitored St. George area and U 18 to Veyo. No fall out was observed in the St. George zone. Reading was also taken in Enterprise, but no fallout. Station operated in routine manner.

Talked with Mr. and Mrs. M. B. Cotten at Veyo. They had requested a supply of the booklet "Atomic Tests In Nevada". They were given a supply of these booklets. Their comments on the tests were favorable.

Kepler was both visible and audible.

****(incidentally, this is the way I celebrated my 20th. wedding anniversary)

7-25-57: Shot "Owen" was detonated at 0630. It was a ballon shot, which was visible and slightly audible. Station operated routinely.

7-26-57: Assisted with the collection and delivery to Mercury samples from shots IX, X, and XI. Traveled from St. George to Mercury Mt and talked with Egry, Las Vegas zone. Used his vehicle to take samples on in to Mercury from Las Vegas. Lv. St. George 1330, Ar. Mercury 2000.

7-27-57: Traveled from Mercury to St. George. Lv. Mercury at 1500, Ar. St. George 1945. Travel was performed by government vehicle.

7-28-57: Took film badge to _____ in Cedar City. Saw and talked with Walter Rohbon.

7-29-57: Message 1630- Shot postponed. W. B. 1600 tomorrow. Std. by 1630. Issued film badge to _____, who requested one to wear. Met him at Silver Reef mine, but he lives in Hurricane. Also met Mr. Don Oram at Silver Reef. Conversation about the atomic tests, but no unfavorable comments were made by either of them.

Other activities only routine.

7-30-57: Message: Shot is Postponed. W. B. 1600 tomorrow. Std. by 1630 tomorrow. Talked with Mr. Cotton at Veyo, re. Booklet "Atomic Tests in Nevada"

7-31-57: Message: 1632, Shot is postponed. W. B. 1600 tomorrow. Std. by 1630.

Dr. Johnson and Dr. Ingram came by to deliver travel vouchers from station #10. Conversation was routine. No other significant activity.

8-1-57: Message 1620- Shot postponed. W. B. 1600 tomorrow. Std. by 1630. Discussed monitoring activities with Larry Gordon in Cedar City.

8-2-57: Message #1: 1647, shot is on. W. B. 2200. Std. by 2230. Message #2: 2217, shot is postponed. W. B. 1600 tomorrow. Std. by at 0900 and 1630.

Maurine Whipple, novelist and writer, came to see me at 90 West 100 North, St. George, Utah. She said that she lives two blocks north of court house, in St. George. Phone 317.

She seems to be interested in writing a story for News Week, so she became interested in the fact that some of the grape vine leaves, at the home of _____ were deformed. Apparently,

_____ believes this to happen only on "shot" years. A photographer took some pictures of the leaves and Maurine Whipple desires to write a story and send it along with the pictures to News Week, but she wanted some more information before doing so. I told her that she could get some information from the Department of Agriculture personnel, and suggested she contact the local farm agent. Later in the afternoon she returned for booklets "Atomic Tests in Nevada" and reported that she had contacted Mr. Kermit Hewit, farm agent, and that it was his opinion that some kind of weed spray had drifted on to the vines, thus causing damage to the leaves.

She expressed interest also in an epidemic or extensive sickness which she says occurred in 1953. She says the illness was most unusual in that it came on rather suddenly with an overwhelming desire to sleep. She says that some of the people in Mosquite, where the sickness occurred, believed that it was due to fallout. She said that no doctor was consulted by the people in Mosquite other than herself and she reports that she talked with Dr. McGregor in St.

George. She also reported that a , Mosquite, became ill about three years ago, losing all his hair. She wants to know more about this case.

She says that she saw a shot in 1952-1953 from a distance of about 35 miles, and that she dropped her shade glasses just before the shot and saw the flash without use of shade glasses. Since that time she reports that she had had headaches and glare sensitivity.

Maurine Whipple was advised that she could talk with one of the U. S. Public Health Service doctors who work out of Mercury if she so desired. She wanted very much to discuss these things mentioned with one of the doctors, so she was told that she would be advised as to when an appointment could be made.

Talked with Dr. Ingram in Mercury and headvised that Dr. Powell could possibly get to St. George either Wednesday or Thursday of next week. Maurine Whipple was so advised by terephone.

8-3-57: Discussed with Mr. Kate B. Empey, Chamber of Commerce, possibility of showing film to members of the St. George Chamber of Commerce. The meetings are held each Wednesday night. Mrs. Empey said she would contact members to determine if and when they would want to see the film. She felt that some of the women in St. George would want to see the film also. She was advised that we would be glad to show films to any group who requested showings.

Message: Shot postponed. W. B. 1600 tomorrow for dual capability. Tower shot "Shasta" at 0445. Ballon shot "Stokes" at 0525. Shot #12. Std. by 1630 tomorrow.

8-4-57: Message: 1629, Both shots "Shasta" and "Stokes" are on at present. W. B. 2200. Std. by 2230.

Message: 2247, Shot #12, "Stokes" is on at 0525. 1600 ft. Ballon shot. Based on W. B. may be delayed up to 0700. Std. by 0800.

8-5-57: Message: 0500, shot postponed. W. B. 1600. Std. by 1630.

Message: 1623. Both shots postponed. W. B. 1800 tomorrow. St. By 0900 and 1630.

Talked with Mr. Kermit Hughes, farm agent, relative to his opinion on the reason for the grape leaves being deformed and he said that apparently this condition had been produced by spray or vapor from weed killer, known as 2-4-D.

Mr. Hughes ask about fallout tolerance for cattle, so I advised that he could best get this type of information from the veterenarian assigned to the test site, Dr. Johnson. He expressed a desire to talk with Dr. Johnson when he is in this area again, so I advised that I would transmit this message to Dr. Johnson.

Message: 1623, Both Shots postponed. W. B. 1800 tomorrow Std. by 0900 and 1630.

Made arrangements with sta. #10 for me to pick up H.V. sampler at Field Office in Las Vegas tomorrow.

8-6-57: Message; Checked in at 0900 and made arrangement to get results of 1800 W. B. at Las Vegas Field Office.

Ly. St. George 1230, Ar. Las Vegas 1500. Checked in at 1200 Field Office. Talked with Mr. Placak, Dr. Powell and Dr. Ingram.

Rechecked on H. V. sampler, but did not get one. Picked up film badges from Dr. Powell for S.A. DC. and Beaver.

Obtained results of 2200 W.T. from AEC Field Office. Message was that Shot "Stokes" is on for 0525 tomorrow.

8-7-57: Lv. Las Vegas, Nev. 0010, Ar. St. George, Utah, 0215. Shot "Stokes" detonated at 0525. Station operated routinely. No fall out observed in St. George Zone.

Dr. Clinton Powell contacted me in St. George and the two of us visited Maurine Whipple. Apparently she is trying to find something about which to write a story. For report of this conference, check Dr. Powell's report.

Mr. Baily, chemist and now radio commentator for St. George radio station, came to my apartment and talked with Dr. Powell and myself. He was seeking information for radio program, and Dr. Powell told him that he would try to get some material for such a program.

Message given to Station #10 that Mr. Kermit Hughes, Farm agent, St. George, would like to talk with Dr. Johnson when he is in this area again.

8-8-57: Film badge exchange work was started. Samples were prepared and sent by courier to Mercury.

8-9-57: Preparation made for departure to North Carolina.

TO: NORMA
PLEASE EXCUSE ALL ERRORS, AS PART OF THIS WAS TYPED IN A HURRY
AND I AM NOT TOO GOOD AT THIS TYPING ANYWAY. GOODBYE NOW. HOPE
YOU HAVE HAPPY SAILING THROUGH THE REMAINDER OF THIS TEST SERIES.

to Bishop Hall. They were very courteous and willing to let us use the Chapel for film badge placements.

We were visited by Mr. Leroy J. Bailey, Chemist, who was very inquisitive and asked questions such as "What frequency do you operate your radio on? What damage did the last bomb do to the control tower? What is the size of the next bomb?" We gave answers that had been in news papers and news releases, otherwise we informed him that we did not know the answer.

June 27, 1957

Checked in at 0900. Mr. Sharpe dictated the corrected data on film badge station locations as requested by Station 10. Station was operated in routine manner the remainder of the day.

June 28, 1957

Shot "Diablo" was postponed. Checked in at 1630 and all 200 units were given 10 - 7 until Sunday at 0900. Other activities were routine.

June 29, 1957

200 units were 10 - 7

June 30, 1957

Checked in at 0900. 200 units were given 10 - 7 until 0900 Monday. The film badge records were checked and corrections made where necessary.

July 1, 1957

Safety Shot detonated and we were advised to operate High-vol. samplers. Net Control was advised that Mr. Able, St. George Radio Station operator, wishes to see a close-up shot if possible. We were advised that a reply to this request would be given to us later.

Mr. Leroy J. Bailey, Chemist, of Washington called and reported that she claimed she had received radiation burns due to fallout while picking cactus near Glendale on June 21. She had told several of her neighbors and acquaintances of this incident.

July 2, 1957

Station 10 was notified of the above claims and advised us to talk to and her daughter in order to gather more information on the matter. Mr. T. J. Sharp and I visited the home and discussed the incident with the persons involved. There were eruptions on shoulders and arms which she described as little blisters. Most of the lesions had scaled over and she admitted that she had scratched them because of intense itching. The lesions were more prevalent on the portion of the shoulders covered by her dress. The daughter made similar claims.

The exposure occurred while they were collecting cactus and flowers east of Glendale near Highway 91 on the desert on June 21, 1957. When the two were en route to their home the burning and itching began as they were entering Santa Clara about two hours after the exposure. Small blister-like eruptions appeared on their backs, shoulders, and arms accompanied by intense itching.

We advised that if she desired we would request Mr. van der Smissen to talk to her. She indicated that she wanted to talk to him and we explained that she would be notified when an appointment could be made.

July 3, 1957

Requested Mr. van der Smissen to investigate the complaints of radiation burns by and her daughter. The results of our conversation with the was reported to Station 10. visited and discussed monitoring

June 19, 1957

We distributed pamphlets to the remaining service stations in St. George. We monitored highway 91 to Leeds but only background was observed. A film badge was picked up from _____ at 1000.

June 20, 1957

Checked in with station at 0900 and received instructions on courier. Samples were made ready to be sent to Mercury and were picked up by Mr. Hinshaw at 1700. We received a call from Mercury regarding ignition keys which were unintentionally carried off by Mr. Ulmstead. The keys were returned to Beaver at 2200. Some work was discussed with monitors Ulmstead, Henshaw, and Larson. Mr. Edward Segal and Mr. Walter Robohn were visited on our way to Beaver.

June 21, 1957

Checked in at 0900. A message was received requesting additional information on 23 film badge station locations. The original records did not contain sufficient information and it was necessary for us to visit each station in question in order to obtain this information. Data was obtained on the film badge stations located on MOTOQUA road and at Nelson ranch.

June 22, 1957

Left St. George at 0800 for Kanab, Orderville, Mt. Carmel Junction, Zion National Park and Hurricane to obtain additional information on film badge stations. We talked with Mr. F.M. Rider and Wilfred Heaton, Kanab School Custodians, also with Mrs. Rachel Findlay, Secretary at Office of Education. They were cooperative and gave us much of the information needed for the film badge locations.

Mr. H. L. Chamberlain gave the information needed on film badge locations at the Orderville schools. Miss Gleave, teacher at Orderville Elementary School, asked many questions concerning the atomic tests and fallout. We gave her a few pamphlets (Atomic Tests in Nevada) and left a supply of pamphlets at Craft's Mercantile Store in Orderville. Information for the Directory was gathered in most of the communities and towns visited.

June 23, 1957

Stood by at 0545. Shot was postponed. Activities were routine for the rest of the day.

June 24, 1957

Shot "Priscilla" was detonated. We monitored the St. George area and highway 91 to the Arizona State line, then highway 18 to Veyo, Enterprise, and Beryl. The road from Beryl to Lund was monitored but no readings above background were observed in that area.

Fallout was highest at Veyo, reading 7.98 mr/hr at 1635. St. George had 0.13 mr/hr at 2115.

June 25, 1957

High-vol. filters and fallout trays were prepared for courier. They were taken to Mercury by Mr. Merideth. The St. George area was monitored but only background was observed. We traveled to Gunlock where Mrs. Leavitt, the local school teacher, gave us information concerning film badge locations and information requested for the Directory.

Mr. Caraway stopped by while on his way to Beaver.

June 26, 1957

The remaining samples from shot Priscilla were picked up by Mr. Larson and taken to Mercury. We traveled to New Harmony to gather film badge information. We talked to Mr. Hammond, care taker and custodian for the church, and

were made with station 10 as to instructions for this station. The station was operated in a routine manner the remainder of the day.

June 12, 1957

Instructions were given on communications by Mr. Marchaise and I was permitted to use the radio. We had permission from station 10 to assist the Microbarograph operator in laying cable for a dual system. This work was completed at approximately 1800 hours.

June 13, 1957

Checked in with station 10 at 0900. We distributed two boxes of pamphlets "Atomic Tests in Nevada" to the motels in St. George. Two more boxes were requested from Mercury. We talked to the motel operators and they were very glad to distribute the pamphlets to guests and other interested persons. The clerk at the "El Pace-o Motel" was of the opinion that the atomic tests were doing much harm to the entire world. She had read everything she could find in opposition to the tests but had apparently read nothing written by authorities on the subject.

June 14, 1957

Stood by for shot "Wilson" at 0400. Shot postponed. Gathered information for the directory during most of the day. The new Zone commander, Tom Sharpe arrived at 2200. We took Mr. Edward Segal to Cedar City and returned to St. George.

June 15, 1957

The zone work was discussed with Mr. Sharpe. We reported to station 10 at 0900 and stood by for further messages. Checked in at 1630 and was permitted to go 10 - 7 until 1630 Sunday.

June 16, 1957

Checked in with station 10 at 1630. Discussed zone work further with Mr. Marchaise and Mr. Sharpe.

June 17, 1957

Pamphlets "Atomic Tests in Nevada" were distributed to service stations in St. George. We talked to the managers and all were very cooperative. They were willing to distribute the pamphlets to their customers and other interested persons. We visited the St. George Chamber of Commerce and left a supply of the pamphlets with the secretary, Mrs. Kate B. Empey. Mrs. Empey inquired as to whether films on the atomic tests were available for showing to civic groups. We advised her that we would check on the matter and let her know which films would be available and when she could expect to plan on the film for her program.

The monitor from Mesquite contacted our station regarding a film badge worn by . We were not able to locate but Mr. Roy M. Menouf, Sheriff of Washington County, gave us information as to where he can be found. Mr. Menouf was very cooperative and assured us that his services were available at any time we might need him.

Stood by at 1630. Shot "Wilson" scheduled for tomorrow.

June 18, 1957

Shot "Wilson" was detonated at 0445 MST. The flash was visible but no sound was heard. The St. George area was monitored as well as Highway 18 to Enterprise. Only background was observed. We checked in at 1630 and the station was operated in routine shot day manner.

DAILY LOG

PRIVACY ACT MATERIAL REMOVED

MURRAY T. PRITCHARD

June 5, 1957

Arrived at Mercury, Nevada at 0800. Identification picture and clearance completed during the morning. Reported to warehouse No. 6 for instructions and assignment to duty. Mr. Melvin Carter explained the duties of zone personnel and I was assigned to the St. George, Utah Zone.

Departed Mercury at 1830 with Mr. A.S. Marchaise

Arrived St. George at 2200

June 6, 1957

Mr. Marchaise, Zone Commander, explained the procedures of film badge exchange. Mr. Ralph Vaccaro and Mr. Ike Burgess assisted with the film badge exchange. We exchanged film badges in Santa Clara and along Highway 91 to the Arizona line. We talked with Mr. Thomas McKeen, proprietor of the Conoco Service Station 15 miles southwest of Santa Clara on Highway 91.

claims he can feel the radioactive fallout and it makes him sick. He says it feels "just like an electric wind." He stated further that he sleeps on the roof of his building and the "fallout got so bad he had to come down off the roof and sleep in his house. He thinks it is causing him to have "heart trouble."

June 7, 1957

Left St. George at 0900 with Mr. Marchaise after planning film badge exchange routes with assistants. We exchanged film badges on U-18 to enterprise and vicinity, also exchanged badges in Gunlock and Santa Clara Elementary School. Mr. Marchaise explained the use of radio communications.

June 8, 1957

Worked with Mr. Marchaise in exchanging film badges in schools of St. George and surrounding areas. Mr. Marchaise explained the contents of his files and the records. We talked to many of the school principals and to Mr. Moody, the county Superintendent of Schools. Their attitude toward the Atomic tests was favorable. Mr. Frei, Principal of Woodward High School of St. George, asked several questions regarding the effects of radiation. He was particularly concerned with its relation to leukemia and to the possible genetic changes in future generations.

June 9, 1957

Mr. Marchaise and I exchanged the remainder of film badges in St. George and vicinity. We checked all badge numbers and when the records were completed the badges with the data sheets were sent to Mercury with Mr. Ike Burgess.

June 10, 1957

I was instructed in the use of survey instruments, high volume air sampler, fallout tray, and coding. The tape in the continuous recorder was changed and a source check was made on the instrument. H.V. filter records were made ready for the explosion of the next atomic device.

June 11, 1957

The instruction manual was read and parts of it were discussed with Mr. Marchaise. Further instructions were given on air sampling. Frequent checks

PRIVACY ACT MATERIAL REMOVED

ACTIVITY REPORT FOR PERIOD
AUGUST 31, 1957 THROUGH OCTOBER 11, 1957, INCLUSIVE
ST. GEORGE ZONE

G. H. Hallmark

I arrived in Las Vegas at 1600 hours on August 31, 1957 and proceeded to the AEC Field Office and called Warehouse 6 at Mercury. A courier was dispatched from the Warehouse to take me into Mercury. We arrived in Mercury at approximately 2400 hours.

On Sept. 1 I reported into the Warehouse and was shown how to operate the ultrascaler after which I operated an ultrascaler checking H1 Vol filters until we had completed them. At 2230 I left for Watertown with Ted Kozuszek in mobile 238 for shot GALILEO, XVII, which was scheduled for firing the next morning.

On Sept. 2 we arose and watched the firing of GALILEO at 0545. We were then ordered back to Mercury and arrived there at 1200 hours; on the way back to Mercury Kozuszek briefed me on the H.V. machine, fallout trays, MX-5, T1-B, and the various duties and policies of the off-site rad-safe program. In the afternoon Kozuszek briefed a large number of us that had recently arrived at Mercury.

On Sept. 3 we were given a briefing by Bob Elder. Also, Ray Brennan and I scanned fallout trays. In the afternoon I received my assignment for St. George.

On Sept. 4 I left for St. George arriving there around 1600 and reporting in to Murray Pritchard, Zone Commander.

On Sept. 5 Murray and I exchanged film badges at Kanab, Zion Park, Rockville, Springdale, Virgin, and LaVerkin.

On Sept. 6, WHEELER, XVIII, was fired. I exchanged film badges at Virgin, La Verkin, Toquerville, Hurricane, and Washington. In the afternoon and evening Murray and I exchanged film badges in New Harmony, Leeds, Pintura and Nelson Ranch.

On Sept. 7, we exchanged film badges at St. George, Santa Clara, Veyo, Enterprise and Gunlock.

On Sept. 8 LA PLACE, XIX, was fired. We were out of fallout trays so we met 235 at the Utah-Arizona state line and borrowed some fallout trays from him. We exchanged a few film badges around St. George.

On Sept. 9 we exchanged film badges in St. George, Washington, and Santa Clara. Tanimoto and Kingsbury arrived about 1600 and I departed with them for Mercury to see the next shot, arriving in Mercury about 2200.

On Sept. 10, Shot WHITNEY was postponed. I helped record HiVol, fallout tray, recorder records, film badges, and other logs.

On Sept. 11, WHITNEY was postponed. I helped record film badges and did routine work around the Warehouse.

On Sept. 12, we stood by for FIZEAU which was postponed, then did routine work around the Warehouse.

On Sept. 13, we stood by for WHITNEY in the morning and FIZEAU in the afternoon. Both were cancelled.

On Sept. 14, we went out to the C.P. to see Shot WHITNEY which was cancelled at H-5. They immediately set up FIZEAU and we saw it fired at 0945. We returned to Mercury and collected the supplies for the monitors. We left Mercury at 1200 on a courier run and returning to our stations, we met 235 and 240 at Glendale Junction. I went with 235 on to St. George, arriving at 1600.

On Sept. 15, we operated the station in a routine manner.

On Sept. 16, NEWTON, XXI, was fired at 0550. We monitored around St. George in the morning and monitored Utah 18 to Enterprise, Beryl Jct., Newcastle, and Cedar City and monitored U.S. 91 from Cedar City to St. George.

On Sept. 17, WHITNEY was postponed. Dr. van der Smissen arrived in St. George at 1130. I left for Cedar City at 1200 to take the samples to courier. Returned to St. George at 1440.

On Sept. 18, WHITNEY was postponed. We were requested to make a list of questions that we had been asked. The only question that I had been asked was "How does the film badge work?"

On Sept. 19, 1957, RAINIER (underground device) was fired. No shock wave was felt in St. George. 213 wanted an appointment in Las Vegas with Miss Whipple. I contacted Miss Whipple and then cancelled the appointment when Dr. van der Smissen couldn't set up the appointment.

On Sept. 20, 1957, we exchanged film badges in Hurricane and St. George.

On Sept. 21, 1957 we had the front end of the car worked on. It shimmied so badly we could hardly drive it.

On Sept. 22, 1957 WHITNEY was postponed again. Gilmore, Dunning, and Anton arrived in St. George about 1320. Dunning explained a program of shielding studies that he desired to be done for him.

On Sept. 23, 1957 WHITNEY was fired. We contacted Sheriff Renouf and made arrangements to use Renouf and Thompson's auto parts office

for shielding studies. Sheriff Renouf took us out to the Indian Reservation where we made arrangements with Stewart Snow to use the church building. A courier came through St. George from Mercury and left us a new trip ticket. We made shielding studies of Shivwits Indian church building, Apartment 12 of Rugged West Motel, Woodbury Apartments, and Renouf and Thompson in St. George. We had the operator of Station 303 replace some tubes in our radio.

On Sept. 24, 1957 we collected milk samples at Veyo and Central, a water samples at the Santa Clara River, Gunlock, and a milk sample in St. George. We made a shielding study of residence in Washington. The courier came through about 1430 and picked up our records and samples. We borrowed a projector and screen from Mr. Hughes (County Agent) and previewed two films - "A is for Atom" and "The Atomic Tests in Nevada".

On Sept. 25, 1957 CHARLESTON was postponed. We presented a film "A is for Atom" to the Chamber of Commerce luncheon. The monitors from Cedar City came down to see it.

On Sept. 26 CHARLESTON was postponed. We made shielding studies of Shivwits church building, Renouf and Thompsons, Apt. 12 - Rugged West Motel, Woodbury Apartments in St. George, and Residence in Washington.

On Sept. 27, we operated the station in a normal manner.

On Sept. 28 CHARLESTON was fired. Miss Maurine Whipple (author) was with us to observe flash. We operated the station in a normal shot day manner.

On Sept. 29, we operated the station in a routine manner.

On Sept. 30, we took shielding studies at Shivwits Indian church, Renouf and Thompsons, Rugged West Motel in St. George, and at the Iverson's in Washington. The couriers arrived about 1930 with our film badges.

On October 1, we exchanged film badges on Arizona line, Castle Cliffs, Santa Clara, Bloomington, Washington, Harrisburg Jct., and Utah patrol station.

On Oct. 2, we exchanged film badges in Leeds, Pintura, New Harmony, Toquerville, Springdale, La Verkin, Hurricane and St. George.

On Oct. 3, we had a flat tire, made a shielding study at Shivwits, exchanged film badges at Gunlock, had a blow-out, made a shielding study at in Washington, had another flat. Dr. Pritchard and I talked to about alleged radiation burns on her hands. We picked up Dr. van der Smissen at Pritchards and returned to . We visited Miss Whipple that evening.

On Oct. 4 we purchased a new tire and had it mounted and I exchanged film badges in the morning in Veyo, Central and Enterprise, accompanied by Miss Maurine Whipple. In the afternoon, Murray and I exchanged film badges in St. George. In the evening, Murray and I exchanged film badges north of St. George accompanied by Miss Whipple.

On Oct. 5, MORGAN was postponed. I exchanged film badges on Motoqua Road to Nelson's Ranch. In the afternoon Murray and I made shielding studies of Renouf and Thompsons and Rugged West Motel. We also discussed our instruments with Maurine Whipple.

On Oct. 6, MORGAN was postponed. We operated the station in a routine manner.

On Oct. 7, MORGAN was fired. We monitored in St. George, Veyo, Enterprise, Beryl Jct., Leeds, Harrisburg Jct., Washington, and St. George, picking up a slight amount of radiation going northeast, north of St. George and between Cedar City and St. George.

On Oct. 8, we took our samples and film badges to Cedar City for the courier and monitored through Beryl Jct., Enterprise, Central, Veyo, Gunlock, Shivwits, and St. George, picking up radiation in Veyo and Gunlock and Shivwits. In the afternoon I made a shielding study of Apt. 12, Rugged West Motel.

On Oct. 9, we operated the station in a routine manner and also visited the Sheriff, City Manager, and City Mayor, informing them we were leaving and giving them Mr. Placak's address in case of questions arising from the atomic tests.

On Oct. 10, we loaded our equipment and proceeded into Mercury, arriving at 1730.

On Oct. 11, I helped check in the equipment of Station 214 at Warehouse 6 and cleared the post to return home.

activities with Mr. Edward Segal and Walter Robohn in Cedar City.

PRIVACY ACT MATERIAL REMOVED

July 4, 1957

Discussed monitoring program and overlapping of areas of Cedar City and St. George zones with Mr. Segal and Mr. Robohn in Cedar City. Shot "Hood" is on for July 5.

July 5, 1957

Shot Hood detonated. Monitored U-18 to Enterprise, also the St. George area. NO radiation above background was observed. Operated station in routine shot day manner.

July 6, 1957

Monitored St. George area but no fallout above background observed. Mr. Roy Makens, chemist, arrived from Mercury to assist in film badge exchange. Plans were formulated and discussed for film badge exchange.

July 7, 1957

Mr. Makens, Mr. Sharpe, and I exchanged film badges on Highway 91 to the Arizona line and U-18 to Enterprise, including Central, Veyo, and adjacent areas.

July 8, 1957

Exchanged film badges with Mr. Roy Makens in Kanab, Glendale, Orderville, Zion National Park, Rockville, Virgin and vicinities. Mr. van der Smitten, and Mr. Ingram arrived at St. George and investigated the complaints of radiation burns by [redacted] and her daughter. Mr. Thomas Sharpe, Zone Commander assisted in the investigation.

July 9, 1957

Worked with Mr. Makens on film badge exchange in Hurricane, La Verkin, Pintura, and New Harmony. Arrived in St. George at 1800 in order to receive emergency dental care for a broken tooth.

July 10, 1957

Concluded film badge exchange in St. George zone. Organized film badges in order and they were sent to Mercury with the shot samples by Mr. Makens.

July 11, 1957

We contacted Sheriff Roy Renouf in an effort to locate [redacted] who had a film badge to be collected. We were told [redacted] still lives in Mesquite. Mr. Renouf gave us considerable information for the Directory, including the number of people located at some of the ranches throughout Washington County. There were a few remaining film badges to be exchanged today.

July 12, 1957

We gathered information for the Directory in Hurricane, Virgin, Rockville, Leeds, Anderson Junction and other communities in our zone. A film badge was issued to [redacted] Rockville, Utah, who had requested one by contacting Station 212 in Cedar City.

July 13, 1957

Shot Diablo (VIII) is scheduled for July 14. Station operated in routine manner.

July 14, 1957

Shot scheduled for this morning was postponed. Operated station routinely and made preparations for shot which is scheduled for July 15.

PRIVACY ACT MATERIAL REMOVED

PRIVACY ACT MATERIAL REMOVED

July 15, 1957

Shot "Diablo" was detonated. Monitored the St. George area and Highway 18 to Enterprise. Only background was observed.

We visited Mr. Keith Hughes, Agricultural Extension Agent, who gave us information for the directory. Mr. Hughes was very cooperative and asked several questions about our program. We gave him several copies of "Atomic Tests in Nevada" which he felt would be helpful in explaining the program to ranchers and farmers of Washington County.

July 16, 1957

A film badge was issued to _____ operator of a service station 15 miles southwest of Santa Clara on Highway 91. _____ had requested a film badge to wear.

A list of towns and communities with their populations in Washington County was prepared and forwarded to Mercury with shot samples from "Diablo."

July 17, 1957

Traveled to Kanab, Utah to obtain additional information for the directory. Mr. Riggs, County Recorder, gave us much information on the population of the communities and ranches in Kane County. He was very cooperative and was interested in our program.

July 18, 1957

State Sanitarian, Mr. Bingham, visited me at the Rugged West Motel. We discussed the water supplies in the St. George Zone and the milk supply for the populated areas. Shot "John" is scheduled for tomorrow.

July 19, 1957

Shot "John" No. IX was detonated at 0700. High-Vol air sampler was operated and hourly readings with MX-5 Survey Meter taken as requested by Station 10. No fallout was found in St. George. Station equipment was moved from Rugged West Motel to 90 West 100 North and set up in connection with my apartment. We were visited by Rev. Braun, Baptist minister, who expressed an interest in our program. He did not criticize the program but explained that many people blame their ailments on the atomic tests. Message at 1630: Shot postponed, Stand by at 1630 tomorrow. Traveled to Mesquite to pick up supplies for St. George and Cedar City.

July 20, 1957

Message: (1630) Shot postponed, stand by 1600 tomorrow.

Both High-Vol air samplers quit running. New brushes were purchased and installed in one machine which worked satisfactorily afterwards. Other activities for the day were routine.

July 21, 1957

Message at 1630: Shot "Owen" is scheduled for tomorrow. Stand by 2230. Station operated in routine manner.

July 22, 1957

Shot postponed. Activities for the day were routine.

July 23, 1957

Message: Shot is on. Owen is scheduled for 0630, Balloon shot. Kepler is scheduled for 0450, Tower shot. One or the other will be fired. Weather briefing at 2200, Stand by at 2230.

Message from Station 10: Check continuous recorders for time, date, and location each day. Message at 2245: Shot is on for Kepler at 0450. Slight possibility Owen may be substituted.

PRIVACY ACT MATERIAL REMOVED

July 24, 1957

Shot "Kepler" detonated at 0450. Monitored St. George, U-18 to veyo but no fallout above background was observed. A reading was taken at Enterprise which also showed only background. We talked with Mr. and Mrs. M.B. Cottam, resort operators at veyo, who had requested a supply of booklets "Atomic Tests in Nevada." The booklets were delivered to them and all their comments on the program were favorable.

Shot "Kepler" was both visible and audible.

July 25, 1957

Shot "Owen" detonated at 0630. Monitored U-18 to veyo. No radiation above background was observed. The Balloon shot was audible and visible.

July 26, 1957

Larry Gordon brought shot samples from Beaver and Cedar City to St. George. Mr. Sharpe and I took these with the St. George samples to Mesquite where they were taken on to Mercury by Mr. Egry. Mr. Sharpe went to Mercury to observe a shot and to participate in the laboratory work.

July 27, 1957

Station was operated routinely. Stood by at 1630. Mr. Sharpe returned to St. George and advised that I was to return to Mercury to observe a shot.

July 28, 1957

Took a film badge to _____ in Cedar City. Discussed program with Mr. Gordon and Mr. Walter Robohn.

July 29, 1957

Left St. George at 1000, arrived Pioch at 1230. Talked to Mr. Brewer, Monitor at Pioch, picked up Mr. Ollie Johnson and departed at 1300 for Mercury. We arrived at Mercury at 1700 and reported to warehouse No. 6. Shot postponed.

July 30, 1957

Reported to warehouse No. 6 at 0800. Talked to Mr. O.M. Plack and Mr. Melvin Carter about monitoring activities in the St. George Zone. I was indoctrinated in the laboratory work. Shot for tomorrow is postponed.

July 31, 1957

Reported to Warehouse No. 6 at 0800. Assisted with checking equipment on AEC Vehicles, worked on laboratory records. Shot postponed.

August 1, 1957

Reported to Warehouse No. 6 at 0800. Assisted with records, laboratory work, cleaned fallout trays, went up in forward area with Mr. Carter. Shot postponed.

August 2, 1957

Reported to Warehouse No. 6 at 0800. Assisted with calibrating ultrascales and fallout tray Kalerline Angus Strip chart recorder. Shot postponed.

August 3, 1957

Reported to Warehouse No. 6 at 0800. Assisted with shielding records, planometer, and laboratory work. Shot Shasta is scheduled for tomorrow.

August 4, 1957

Weather briefing and stand by will be at 1600. Routine station duty performed the remainder of the day.

August 5, 1957

Assisted with laboratory work in warehouse NO. 6. Shot postponed.

August 6, 1957

Reported to warehouse NO 6 at 0800. Assisted with laboratory work and routine station duties. Shot Stokes scheduled for tomorrow.

August 7, 1957

Shot Stokes, Balloon Shot, detonated at 0445. I was permitted to observe this shot from the control point.

Mr. Vernon Andrews came to St. George with me to assist with the film badge exchange. We arrived in St. George at 1600.

August 8, 1957

Mr. Andrews exchanged film badges in New Harmony, Pintura, Hurricane, and vicinities. Mr. Tom Sharpe discussed zone work before leaving.

August 9, 1957

Mr. Sharpe left for his home. Mr. Andrews and I exchanged film badges in Kanab, Mt. Carmel, Orderville, Glendale, Zion National Park, Rockville, Springdale, and Virgin. Message: Shot postponed, stand by 1630 tomorrow.

August 10, 1957

Exchanged film badges at Nelson Ranch, Gunlock, St. George and vicinity. Shot postponed, stand by 1630 tomorrow. Vernon Andrews is to act as courier for film badges.

August 11, 1957

Exchanged film badges in St. George and vicinity.

General message: shot postponed, stand by 1630. Vernon Andrews departed 1115 for Mercury with film badges from St. George.

August 12, 1957

Picked up the remainder of film badges. Requested by radio that courier stop by and take old badges to Mercury. Did not receive definite instructions. Shot Shasta is on.

August 13, 1957

Shot postponed. Station was operated in routine manner.

August 14, 1957

Shot postponed. Spent some time today trying to get continuous recorder to operate satisfactory. Requested a new traction spring.

August 15, 1957

Message NO. 1: Shot "Shasta" is on for 0500. Next weather briefing 2200 tonight. Predicted fallout, high level 340° 1-R contour 60 miles, Low level, 357°, 1-R Contour 30 miles. 200 Series stand by at 2230.

August 16, 1957

Routine station activities performed for the day. Shot postponed.

August 17, 1957.

Shot postponed. Received call from station 10 reporting that shot "Shasta" is on. The call was at 0100. The High-vol sampler was started.

August 18, 1957

Shot "Shasta" detonated at 0500. Monitored St. George and J-18 to Enterprise. Operated station in routine shot-day manner. Mrs. Empey from the Salt Lake Tribune called for information on the shot to report in her news column.

Mrs. Ensey was informed that the shot was visible but there was only a slight rumble heard. The flash was described briefly to her and she was advised that she might obtain further information from the AEC information office.

August 19, 1957

stood by at 0530. Shot Doppler postponed. Checked in again at 1000.

Station 10 wanted to know when Mr. L. K. Bailey wanted to put on his radio program and what type of program he wanted. They also wanted to know when daughter would be back in Washington. The daughter is supposed to have gotten radiation burns along with while picking cactus near Glendale. Station 10 wanted to know if they could get in contact with Miss Maurine Whipple, news columnist, who lives in St. George and is writing articles relative to the atomic tests in Nevada.

I contacted Mr. Bailey by telephone and received the information requested by Station 10. Mr. Bailey can put his program on any afternoon at 1600 Monday through Friday. The program is usually one half hour long but as much time can be allotted to the atomic tests discussion as desired. Mr. Bailey suggested that the talk be in the form of an interview with Mr. van der Smissen and a rehearsed discussion with a few basic facts on the atomic test program be given. He suggested the emphasis of reassurance and the allay of fear from fallout. He reported that Miss Whipple can be contacted at her home most any time.

This information was passed on to Station 10 by radio at approximately 1100 on August 19.

At the 1630 check in I was informed that Mr. van der Smissen will be at my place in St. George at noon on Thursday August 22. I called Mr. Bailey and have made arrangements to contact him as soon as the doctor arrives.

August 20, 1957

Checked in at 0900. I was asked if I had been asked any medical questions which I would like for Mr. van der Smissen to answer. I could not think of any at that time. Checked in at 1630. Shot "Doppler" postponed.

Mr. Elliott from the AEC information office came by and discussed the zone work in this area, also the program in general.

August 21, 1957

Operated station routinely. Shot postponed. Mr. van der Smissen will arrive at 1400 tomorrow, if shot does not go.

August 22, 1957

Mr. van der Smissen arrived 1445. Mr. Bailey and he planned the radio program to be given at 1600. Shot is on. Station 10 requested serial numbers of all survey instruments and continuous recorders.

August 23, 1957

Shot "Doppler" detonated at 0530. It was both visible and audible.

The serial numbers of survey instruments and continuous recorder were given to Station 10.

Monitored St. George and vicinity. No fallout above background observed. Station was operated in routine shot day manner with instructions to stand by at 0900 tomorrow.

August 24, 1957

Checked in at 0900. was informed that a courier would come by at 1900 to pick up shot samples. Mr. Elder and Mr. Plotter came by at 1920 and picked up the samples on their way to Mercury.

August 25, 1957

Checked in at 0900, also at 1630. Next shot "Smoky" is scheduled for Wednesday, August 28. Station operated in routine manner.

August 26, 1957

Station 10 requested that milk and water samples be taken from all stations in the St. George zone. More sample bottles were requested. The station was operated in routine manner the remainder of the day.

August 27, 1957

Station 10 requested that I find out when daughter will be back home in order that Mr. van der Missen may talk to her about her claims of radiation burns. I visited the Iverson home and informed me that the daughter would be back on September 1. This information was passed on to Station 10.

August 28, 1957

Shot postponed. Requested information pertaining to my new film badge and was informed that an attempt would be made to locate the badge and I would be informed later on the matter.

August 29, 1957

Shot postponed. Shot "Franklin Prime" is to be detonated at 0540 tomorrow. This is to be a balloon shot. Station operated in routine manner the rest of the day.

August 30, 1957

Shot "Franklin Prime" detonated at 0540. It was visible but not audible. Monitored St. George, Santa Clara, and vicinities. No radiation above background was observed.

August 31, 1957

Shot "Smoky" detonated at 0530. The shot was visible and audible in St. George. Monitored St. George, Santa Clara, and Highway 91 to Arizona line. Monitored U-18 to Enterprise. Fallout in St. George reached a peak of 12 M/R. 27 M/R were observed 7 miles south of Veyo on U-18. The readings and times were recorded on the data sheets and those of populated areas were reported to Station 10. Mr. Loehr, monitor from Mesquite, assisted me in setting up weathering stations in St. George. We took shielding measurements at my apartment located at 90 West 100 North in St. George.

September-1, 1957

Monitored St. George and U-18. Many readings above background were observed and reported to Station 10. The decay of radioactive fallout was rapid during the first 12 hours and had fallen to approximately 2 M/R in St. George.

Mr. Robert Elder and Charles Gielker came by for shot samples at 1415. Checked in at 1630. Shot Galileo is on for tomorrow.

September 2, 1957

Shot Galileo detonated at 0540. Monitored St. George, Shivwitz Indian reservation and Veyo. Readings above background were observed but these were present from shot "Smoky" and no rise in readings during the day were observed.

Checks were made during the morning and evening at the weathering stations and reports were sent to Station 10.

PRIVACY ACT MATERIAL REMOVED

September 3, 1957

Called the home to see if the daughter had returned from Califor-

nia. The daughter is at home and the information was relayed to Mr. van der Smissen.

Station 10 advised me that Mr. Howard Hallmark would arrive in St. George tomorrow to assist with the monitoring program.

September 4, 1957

Mr. Hallmark arrived in St. George at 1600.

Station 10 informed me that there will be a film badge exchange as rapidly as possible. Radios will be 10 - 8 while in vehicles. There will be a check in at 0900 tomorrow morning.

September 5, 1957

Mr. Hallmark and I exchanged film badges in Kanab, Zion Park, Rockville, Springdale, and Virgin.

Shot "Wheeler" (No. XVIII) is scheduled for tomorrow.

September 6, 1957

Shot "Wheeler" detonated. All 200 Series were permitted to go 10-7 until 1300 when there would be a check in. We were advised to operate stations in routine shot day manner. No fallout was observed.

Film badges were exchanged in St. George and vicinity, New Harmony, Leeds, Pintura, Nelson Ranch, and surrounding areas.

September 7, 1957

Film badges were exchanged in St. George, Veyo, Central, Enterprise, Santa Clara, and Gunlock.

Message No I: Shot "Laplace" (XIX) scheduled for tomorrow. This is a balloon shot. Time --0600. Next weather briefing 0500. Predicted fallout 340 to 360°. 1 -M contour line 2 miles and exting to 12 miles. 200 series stand by at 0530.

September 8, 1957

Shot "Laplace" detonated 0600. Monitored St. George area but no fallout above background observed.

Film badge exchange continued. Met the Mesquite monitor at Arizona State line for a supply of fallout trays. This arrangement was made by Net Control when we reported earlier that we were out of trays.

There is still a background of 0.25 MR/HR in St. George

September 9, 1957

Film badges were exchanged in Washington, Santa Clara and vicinities. Monitors Yamamoto, Kingsbury, and Hallmark left for Mercury to observe a shot. They took the film badges to Mercury.

I was informed by Station 10 that Mr. van der Smissen will be in St. George on September 11 to talk to daughter about her claim of radiation burns.

September 10, 1957

Shot "Whitney" postponed. Station was operated in routine manner.

September 11, 1957

Shot postponed. Picked up remaining film badges in Leeds and in St. George which could not be collected at time of exchange.

Mr. Van der Smissen could not come to St. George as planned.

September 12, 1957

stood by at 0500. Shot Fizeau postponed. Requested to stand by at 1130 for possible shot at 1700. Shot postponed. Routine station duties were performed the remainder of the day.

September 13, 1957

Shot "Fizeau" postponed. went to Gunlock to pick up a film badge from . i could not find and was informed that he had moved and could not be contacted.

September 14, 1957

Shot "Whitney" postponed. Shot "Fizeau" No. XI, a tower shot detonated at 0945. Monitored St. George and Vicinity. Operated station in routine shot day manner.

We were informed by Net Control that "Newton" a balloon shot, was scheduled for Monday and "Whitney" was scheduled for Tuesday.

September 15, 1957

Operated station in routine manner. Stood by at 1630 and was advised that Shot "Newton" is scheduled for tomorrow.

September 16, 1957

Shot "Newton" No XXI detonated at 0550. Monitored U-18 to Enterprise, Newcastle, Cedar City, New Harmony and St. George. No readings above background were observed.

September 17, 1957

Station 10 informed us that Mr. van der Smissen would be in St. George at noon tomorrow.

Miss Maurine Whipple, News Columnist, came by and asked for information pertaining to atomic tests, radiation effects, and the monitoring program. She was advised that Mr. van der Smissen would be in St. George tomorrow and would be able to give her considerable more information than we had available. She was cooperative and agreed to talk to Mr. van der Smissen when he comes to St. George.

September 18, 1957

We were requested by Station 10 to make a list of all questions which have been asked by the public during our period of zone duty.

Mr. van der Smissen arrived in St. George at approximately 1200. He, Mr. Hallmark and I visited the home and talked to and her daughter. The were very nice and they appeared to be satisfied with Mr. van der Smissen's explanation of radiation burns and symptoms. Mr. McGregor, their physician, was contacted before going to the home. It seemed that the mother and daughter felt that their symptoms were caused by direct sunlight on the desert rather than by radio active substances.

Mr. van der Smissen talked to Miss Maurine Whipple and gave her the information she desired for her article. At first she had planned to write an article upholding the people who were opposed to the atomic tests. She changed the article to point out the precautions taken to protect the people from possible radiation burns and shock damage to property, as well as to disprove the false beliefs of personal damage by the atomic tests.

September 19, 1957

Station 10 advised us that there would be no air sampling nor fallout trays placed today unless advised later. The shot was presumed to be a safety device, or a tunnel shot.

We were advised to report the effects of the shot in the following manner:

1. Not felt except by a very few, except under favorable conditions
2. felt only by few persons at rest, especially on upper floor of buildings.

3. felt quite noticeably on upper floors, especially. motor cars

may rock slightly. Obtain information and location, forward to station 10.

September 20, 1957

Shot Whitney postponed. Next weather briefing at 1630 tomorrow. Station operated in routine manner.

September 21, 1957

Shot Whitney scheduled for tomorrow. This is no. LXII. (Shot was later postponed)

Shot Charleston detonated at 0600. Monitored St. George and operated station in routine shot day manner.

Received message from station 10 that Mr. Gilmore plans to be in St. George tomorrow.

September 22, 1957

Mr. Richard Gilmore, Mr. Gordon Munning, and party arrived in St. George. They gave instructions for taking shielding data and discussed the program in general. Two scintillators were left for this work.

September 23, 1957

Shot "Whitney" fired at 0530. We monitored St. George and vicinity but observed no increase in radiation measurements.

Shielding data was taken at the following locations:

1. Apartment building at 90 West, 100 North, St. George, Utah
2. Mugged West Motel, St. George
3. Shivwitz Indian Reservation Church Building
4. Menouf Auto Supply, St. George
5. The Iverson Home in Washington, Utah.

September 24, 1957

Contacted Mrs. Kate M. Ampey, Secretary of Chamber of Commerce and made arrangements for the showing of film "A is for Atom" to Chamber of Commerce meeting tomorrow.

Station operated in routine manner the remainder of the day.

September 25, 1957

Shot postponed.

The film "A is for Atom" was shown to the members of the Chamber of Commerce at their luncheon program. There were approximately 50 persons present. There were many favorable comments on the film.

September 26, 1957

Took shielding data on the five locations as done on September 23. This data was put in order to be sent to Mercury.

Message no. 1: Shot postponed, next weather briefing 1600, stand by at 1630.

September 27, 1957

Station operated in routine manner.

Miss Maurine Whipple came by and asked for more information relative to the article she is writing for "News week." The information had been released in news reports and was given to her.

September 28, 1957

Shot postponed. Station operated in routine manner. Was informed that preparations are being made for the next film badge exchange beginning Monday.

September 29, 1957

Checked in at 1100. We were informed that a courier would be by tomorrow. He will pick up film badges in Kanab, Orderville and vicinities.

September 30, 1957

Checked in at 1300 and was requested to stand by at 1100 tomorrow. Shielding data taken from the five locations as done previously.

Mrs. Shugart called and requested that we talk to _____ who thinks she may have received radiation burns.

October 1, 1957

I called _____ and made an appointment with her for Thursday at 1500. I also requested that Mr. van der Smissen come to St. George to talk to _____ and also to Miss Whipple. I was informed that Mr. van der Smissen could make the trip to St. George.

October 2, 1957

Miss Whipple was informed that Mr. van der Smissen would be in St. George tomorrow. We were requested to pack the High-Vol samplers in wood crates and the continuous recorders in cardboard boxes at the close of the atomic tests.

October 3, 1957

Mr. van der Smissen, Mr. Hallmark and I visited _____ and talked to her about her claim of radiation burns. _____ is an employee at the local St. George Hospital and works in the laundry department. She detergents and linens every day. She operates the autoclave which is adjacent to the X-ray room.

The lesions on _____ hands were encrusted areas near the finger tips and around the nails. There was considerable fissuring with occasional bleeding of the lesions. She stated that her forearms and face had been previously involved. _____ stated further that she was employed in 1926 as an X-ray technician and worked with the old portable type machine which had little or no shielding.

The patient had been under treatment from Mr. A.W. McGregor who was consulted before we talked to her. Mr. McGregor had diagnosed the condition as an allergy and Mr. van der Smissen concurred with this diagnosis. There was improvement of the condition when the patient stayed away from her work a few days. She was very cooperative and appeared to be satisfied with Mr. van der Smissen's explanation of radiation burns. She did not appear to feel that her condition was due to radiation burns after the conversation.

Mr. van der Smissen talked to Miss Maurine Whipple about her news article, also to _____.

October 4, 1957

Operated station in routine manner. Shielding data was taken from the five locations as done previously.

October 5, 1957

routine station activities performed.

October 6, 1957

We were informed by Station 10 that we could expect to pack up our equipment and bring it to Mercury on October 10 if Shot "Morgan" is detonated tomorrow.

October 7, 1957

Shot "Morgan" detonated at 0600. We monitored the St. George area, U-18 to Veyo, Central, Enterprise, Newcastle, Cedar City, Highway 91 back to St. George.

October 8, 1957

Took shot samples and film Badges to Cedar City to meet the courier plane. Talked to Monitors Kingsbury and Baker. Drove to Beryl Junction and monitored from that point to Enterprise, veyo, Gunlock, Shivwitz reservation, Santa Clara and St. George. The highest reading was at veyo which was only 0.07 MR/HR.

October 9, 1957

Mr. Hallmark and I visited the Sheriff, Mayor, and officials at the City Hall including the City Manager, Secretary of Chamber of Commerce. We told these officials that we were leaving St. George and gave them Mr. Placak's address where he could be contacted if any problems arise relative to the Atomic Tests.

Equipment not in use was packed for transporting to Mercury.

October 10, 1957

Packed up remainder of equipment and left St. George for Mercury at 1130. Arrived in Mercury with Mr. Hallmark at approximately 1730.

October 11, 1957

Reported to warehouse # 6 at 0800. Ran High-vol samples through the Ultrascaler, arranged film badges in order, and checked in all equipment which was charged to me in St. George.

We talked to the office personnel at warehouse 6, who assured us that if we needed film to show to interested groups or any other information they would be glad to help us. The courtesy and patient attitude of these officials made this tour of duty a pleasure.