

Joe Halonich



Department of Energy
Office of Civilian Radioactive Waste Management
Yucca Mountain Site Characterization Office
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Las Vegas, NV 89193-8608

WBS: 1.2.7.3
QA: N/A

JUN 20 1994

William B. Simecka, Assistant Manager, for Engineering and Field Operations, YMSCO, NV
YUCCA MOUNTAIN SITE OFFICE (YMSO) ACTIVITIES REPORT (SCP: N/A)

The following are the significant activities from May 28, 1994 through June 10, 1994:

1. FIELD OPERATIONS CENTER

A. Management and Administration

- a. Provided administration, operational, logistical support during this period to the following tours May 28th - June 10th: Tara O'Toole; UNR Cooperative Extension; Transportation Coordination; Japan Power Information Center.
- b. Site Manager began his annual FY budget preparation by meeting with the respective WBS 1.2.7 participants; RSN, REECO, T&MSS and M&O, to strategize and initially plan for scope of work activities and FTE's for the forthcoming FY '95 Budget Plan.
- c. Submitted Letter of Request to DOE/NV Site Managers to utilize the NTS Duty Offices for coverage of "graveyard" shift and possibly weekend to support DOE/YMSCO in support of the ESF Tunnel boring machine operations at the North Portal Pad.
- d. Processed 12 Work Order requests
- e. Prepared 18 badging requests.
- f. Processed 40 photographic services requests.
- g. Inspected available LANL and SNL trailers in Area 3 to evaluate potential use on YMP. Provided Site Manager with recommendations.

B. Field Safety & Health

- a. Measured air quality, noise, and dust levels during a confined space entry into the drum of an 8-yard International Harvester Paystar 5000 Transit Mix Truck, NS 81703, for removing dry cement cake using a 25-lb hand chipper.
- b. Measured air quality during confine space entries into three manholes (CF, CE, and CK) at the ESF pad for pulling string through electrical conduits in the vaults.
- c. Measured air quality and noise levels during survey operations of NP Starter Tunnel by RSN Personnel and for PK personnel for holes drilled into the invert.
- d. Conducted noise level measurements in Chiller Main Equipment Room of FOC after installation of new chiller.

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- e. Measured air quality and noise levels during preparation/cleaning and mud pour operations in the invert at CS 1+50 to 2+00.
- f. Attend the Site Manager's Update Meeting and the Field Test Coordination Meeting held at the FOC.

2. RAYTHEON SERVICES NEVADA, (RSN)

A. Field Support

- a. As-built 69 kV power poles.
- b. Lay-out of C Well Spreading Basin.
- c. As-built Gripper Pad areas in the Starter Tunnel.
- d. Continued Construction Control ESF.
- e. As-built the Trench NRT-1.
- f. As-built ESF utilities.
- g. Geological Mapping of ESF Drainage Channel.
- h. Continued survey check of Yucca Mountain Control.
- i. As-built borehole SD-9 collar.
- j. Lay-out of C Wells Vaults.
- k. Lay-out of General Support Facilities Control Monument.

B. Quality Control

- a. Performed verification of drilling activities on SD-12.
- b. Performed verification activities at C-Well Complex Water pipeline.
- c. Performed verification activities at SD-9.
- d. Performed verification geophysical logging activities at NRG-7/7A, NRG-2A NRG-2B, NRG-2C, & NRG-2D.

3. SAMPLE MANAGEMENT FACILITY, (SMG/SAIC)

- A. Supported drilling activities on USW SD-12. Sampled and processed core from 760.8' to 892.0'; planned depth is 2300.0'. Currently drilling in the Lower Lithophysal Zone of the Topopah Springs.
- B. Supported split shift drilling activities on USW SD-9. Sampled and processed core and cuttings from 53.7' to 734.7'. Planned depth is 2120.0'. Currently drilling in the Upper Lithophysal Zone of the Topopah Spring Member.
- C. SMF processed core and cuttings from drilling activities.
- D. Created 806 specimens from core samples for analysis by Principal Investigator. Prepared and shipped specimens for the U. S. Geological Survey.
- E. Conducted various geophysical logging activities on USW NRG#7/7A (Video Log); UE-25 JRG#2A & 2B (Spectra Log, prototype); and UE-25 NRG#2C & 2D (Video Log).
- F. Conducted 6 sample examinations at SMF for USGS and LANL.
- G. Sample Overview Committee met on 06/08.
- H. Completed Composite Borehole logs for NRG 7/7A, NRG 2C, and NRG 2D.

4. YMP HYDROLOGIC RESEARCH FACILITY, (USGS)

A. Geologic Studies Program

- a. Collected thermoluminescence and U-series samples in Crater Flat in Yucca Mountain area June 2-3, 1994.
- b. Met at Bare Mountain trenches BMT-1 and BMT-2 to coordinate sampling.
- c. Field Investigation, mapping and data collection on NTS at Mine Mountain and Jackass Summit from May 30 through June 3.
- d. Performed surface based gravity and magnetic surveys across the Ghost Dance Fault at a variety of locations on Yucca Mountain through June 3.
- e. Completed final field check of the Calico Hills map, and re-flag two Crater Flat trenches (CF-3 and CF-2.5) for field review from June 1-6, 1994.
- f. Performed field work from June 1-7, 1994 in the Beatty area.

B. Saturated Zone

- a. Met with Site Potentiometric Levels staff at the HRF from June 2-3, 1994.
- b. Measured static water levels in UE-25b #1, USW G-3, USW WT-1, and USW WT-2 this week. Water level was also measured in USW UZ-14 on June 1. Data were downloaded from the data loggers at USW WT-2.

C. Unsaturated Zone

- a. Sampled gas, on site, in the ESF radial boreholes from May 31- June 3, 1994.

5. REYNOLDS ELECTRICAL AND ENGINEERING CO., (REECO)

A. Drilling

- a. SD-12; cored to 886.08'. Reamed to 856.98'.
- b. UZ-14; Monitored fluid level and took water samples. Rigged down Failing Stratmaster Drill Rig and moved rig.
- c. SD-9; drilled from 16.67' to 53.57' with 13-inch hammer bit; opened hole 15 inches to 53.57'. Ran 9 5/8-inch casing to 50.15' G.L.; cemented same to surface. Cored to 734.65 feet.
- d. UZ-7; cleaned out bore hole to 161 feet. Still having some problem with the hole sloughing in from above.

B. Logistics

- a. Attended an unscheduled training session on 6/2/94 involving compliance with D.O.T. regulations. This session was conducted by the Fleet and Equipment Operations Department.
- b. Requisitioned needed supplies and arranged for services needed in the operation of the Field Operation Center (FOC) and related facilities.

- c. Attended Winn Wilson's Weekly FOC Staff Meeting.
- d. There were no Public Outreach Tours scheduled between 5/30/94 and 6/7/94.
- e. Requisitioned, received and stored 33,600 lbs. of drinking water ice which will be utilized by the Yucca Mountain Project in Area 25.
- f. Arranged through the REECo Waste Management Department to have rodent traps set in the Area 25 USGS shop facilities. Also arranged to have two (2) portable toilets set in forty mile wash in support of a construction project there.
- g. Assisted in conducting four (4) tours that were held at the Field Operations Center (FOC). Also made necessary arrangements for three (3) additional tour that will be held during the next reporting period.
- h. Prepared for W. A. Wilson a cost breakdown of how much had been spent from his budget during FY94 in support of the YMP tour operations.
- i. Requisitioned needed supplies and arranged for services required to operate the FOC and related facilities.

C. Construction

- a. Starter Tunnel
 - 1. Place mud slab
 - 2. Install Extensometers near face
 - 3. Form & Tie rebar for invert slab, pouring today
 - 4. Continue to form, tie rebar & pour invert slab

- b. TBM assembly
 - 1. Now 50% complete
 - 2. Installed Mute chute
 - 3. Installed Ventilation Components
 - 4. Continue electrical wiring (2 weeks)
 - 5. Finish welding Tail Shield to Gripper Shoe
 - 6. Install bridge conveyor
 - 7. Working on wiring between MCC & motors
 - 8. Place more outside runway
 - 9. Installed Operators Console
 - 10. Installed Ring Erector
 - 11. Installed 4 Gripper Cylinders
 - 12. Installed Rear Segment Hoist
 - 13. Install Gripper Shoes & Tail Shield
 - 14. Work on Muck Dump

- c. Precast Yard
 - 1. Installed Tank & Pump
 - 2. Form and pour additional pads
 - 3. Assembled Straddle Crane
 - 3. Continue mobilization of additional equipment

- d. North Portal Pad
 - 1. Backfilled grounding grid

2. Installed Transformer at Portal
3. Continued work on underground utilities
4. Burn in transformer at portal
5. All of North pad on hardline power (except lab trailers)

e. Batch Plant

1. Batch plant now Certified with three trucks

6. LOS ALAMOS NATIONAL LABORATORY, (LANL)

- A. Construction at the ESF continued this week as Kiewit/PB commenced pouring a concrete leveling slab on the inert of the starter tunnel. Report of tracer water used underground by Reynolds Electrical and Engineering Company Inc., (REECo) from May 31, 1994, through June 4, 1994 is 3.7 kiloliter (990 gallons). The total usage (revised) of tracer water is 1,762.5 kiloliter (465,613 gallons).
- B. No geologic mapping took place this week.
- C. No perched water was identified during this week.
- D. No consolidated sampling took place this week.
- E. The Sandia National Laboratories (SNL) Field Team monitored the Multipoint Borehole Extensometer gauges and rockbolt load cells located in the ESF and test alcove. The removal of the invert in the ESF also removed the invert convergence pins, thus no convergence pin readings were taken. As soon as practical, the convergence pin in the invert will be reestablished.
- F. The U. S. Geological Survey closed in the holes and gauges were installed for monitoring. Monitoring will continue through next week.
- G. REECo completed installing rockbolts to secure the chain link fence to cover the vertical sides of the cut. REECo carpenters installed another set of horizontal braces around the large block. REECo cleaned the surface of the rock at the three dye test areas, and the SNL Field Team mapped the fractures. The SNL Field Team collected ten rock samples from the muck pile. The single boom drill jumbo is being brought on-site in preparation of sample collection starting next week.

7. DOCUMENTS AND RECORDS CENTER, (CRWMS M & O)

JOB PACKAGES

| | | |
|-------------|--------|---|
| YMP/JP94-03 | Rev. 1 | Preparation of access, drilling and testing of boreholes UE-25 NRG-2C and D |
| YMP/JP92-17 | Rev. 1 | UZ-14 drilling and testing. |

FCRs

| | |
|--------|--|
| 94/228 | Optional Use of water reducing agent (WRA) in concrete mix design. |
| 94/233 | Release of Hold H-2. |
| 94/234 | Remove Water Meter Vault at "Box Cut". |
| 94/234 | Add Notes to Sanitary Sewer Manholes Details. |

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DRAWINGS ISSUED

BABBDA000-01717-2100-24060, REV. 1.
BABBDA000-01717-2100-24070, REV. 1.
BABBDA000-01717-2100-24072, REV. 1.
BABBDA000-01717-2100-24074, REV. 1.
BABBDA000-01717-2100-24075, REV. 1.
BABBDA000-01717-2100-24076, REV. 1.
BABBDA000-01717-2100-24077, REV. 1.
BABBDA000-01717-2100-24078, REV. 1.

REPRODUCTION

17,397 pages copied
1,104 drawings copied

DOCUMENTS ISSUED

689 controlled documents
- 190 FCR's
- 75 JP's
- 424 DWG's

DTAR Logoffs - 126

8. FIELD TRAINING, (SAIC)

- a. GET 1.5 Refresher Training; 14 students passed.
- b. ESF Visitor Training briefing for 7 people.
- c. Underground Safety Training, 9 people attended.
- d. Standard First Aid, 11 people attended.

YMP:WAW-94/132

Winfred A. Wilson

Winfred A. Wilson, Site Manager for
Assistant Manager for Engineering
and Field Operations

cc:

J. R. Dyer, YMSCO, NV
W. R. Dixon, YMSCO, NV
S. B. Jones, YMSCO, NV
E. H. Petrie, YMSCO, NV

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D.L. Koss, REECo, Las Vegas, NV

~~P. S. Justus, NRC, Las Vegas, NV~~

R. R. Kovach, LANL/YMSO, Mercury, NV

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