

Appendix A: Response Timeline

The following sequence of events is compiled from notes provided by APSC, ADEC, EPA, and JPO.

<u>Date</u>	<u>Time</u>	<u>Description of Actions</u>
Jun- Aug 2001		Annual Security Linewalk performed to examine both sides of the pipeline. Crews worked from MP 395 south to PS12, then from PS1 to MP 395.
Oct 4	1431	TAPS struck by bullet, pipeline begins to release oil from bullet hole.
	1442	APSC security helicopter observes two individuals riding ATVs on Right of Way south of RGV 65.
	1444	Security helicopter lands and questions one individual, second individual departs area at high rate of speed. Security Officer questions individual. Individual states that his brother has just shot the pipeline and it was leaking oil. Security Officer obtains additional information and returns to the helicopter to find the spill location.
	1453	Spill discovered by APSC Security personnel during helicopter overflight.
	1455	Security Helicopter Observer reports oil spill just South of CKV 66 to Security at PS7 via APSC radio system.
	1455	Security Helicopter Observer reports oil spill to APSC Fairbanks Business Unit Security Lead via APSC radio system. Also reports that oil leak could be the result of a gunshot.
	1455	TAPS OCC controllers initiate pipeline shutdown. PS1, PS3, and PS4 were shutdown in sequence, with PS4 idled at 2:58 pm.
	1455	Fairbanks EOC at APSC Fairbanks Business Unit opened for crisis management. Federal and state on-scene coordinators identified.
	1500	OCC contacted APSC System Engineering to verify exact leak location.
	1520	Fairbanks DEC staff notified of the release.
	1520	Security patrols dispatched from Fairbanks and PS6 to set up checkpoints South and North of the spill site to keep personnel (APSC and third party out of harm's way) until the suspect is apprehended and the area cleared.

	1523	Closure of RGVs between PS4 and PS5 initiated.
	1630	Unified Command established.
	1700	Two APSC technicians arrive at RGV 65, but are held there until area can be cleared by APSC Security and Alaska State Troopers. Vacuum truck and fire truck at Livengood. On hold due to security concerns.
	1840	Suspect taken into custody by Alaska State Troopers.
	1848	DEC responders on scene.
	1900	Response crews released from checkpoints to respond to oil spill. Response crews and equipment gain access to site. Establish Site Safety Plan for highly hazardous environment – fire, personnel. Staging area set up; response tactics include building containment pits.
	1910	60-ton crane on way from Fairbanks.
	2120	Hydraulic repair clamp on site.
	2200-2300	60-ton crane on site.
	2245	FBI debriefs APSC Corporate Security at APSC’s Fairbanks office.
Oct 5	0045	First containment cell completed (leading edge of the oil established).
	0056	Four vacuum trucks on scene.
	0001-0130	Response/recovery crews identified leading edge of oil spill, established collection basins and contained the leading edge of the spill. The oil did not advance beyond this point.
	0300	Steese Volunteer Fire Department on site at CKV 66 – adjacent to leak site. PS7 fire truck and ambulance at RGV 65 staging area.
	0335	Oil recovery begins (initiated pumping of oil to vacuum truck).
	0500	Fire trucks and ambulance on site.
	0745	Pump around is up and running at RGV 65. This was set up to help relieve oil flow and pressure from the bullet puncture.
	0845	Additional response crews and equipment continue to arrive. 8,400 gallons of recovered oil delivered to PS7.
	1145	DEC informs Governor’s Office that spill is contained.
	1400	Response crews are recovering spilled oil at a rate equal to or greater than the continuing discharge rate from the pipeline. This stabilizes the environmental threat.

	1445	Williams fire crew on site. This was a critical element in the overall safety approach to the spill response. Focus is on the people preparing to conduct the repair of the pipeline. The Williams crew is highly experienced in high-pressure oil fires. The fire crew assessed the repair and fire safety plan, proceeded with pipe insulation removal, then rested for the clamp procedure.
	2130	Crane positioned to install hydraulic clamp.
Oct 6	0040	Determination that crane needs to be repositioned (not enough reach on the crane to install the clamp.)
	0235	Pipeline Hydraulic Clamp successfully put in place. Leak rate from 160 gallons/hour to less than .5 gallon/hour. 43,975 gallons of oil recovered. During the day, the eastside of the pipeline (away from the spill area) was walked and examined from Manley Hot Springs Road Crossing PLMP 395 to PLMP 405.5.
	1700	Drilling started for permanent repair process.
	1740	Permanent repair begins with the removal of the hydraulic clamp.
	1835	Hole in pipeline is plugged with threaded O-ring pipe plug (TOR).
	2300	Seal welding of TOR and inspection complete. This completed permanent repair of the pipeline.
Oct 7	0324	TAPS restart initiated with start of mainline pump at PS1.
	0630	88,541 gallons of oil recovered.
	0700	North Slope operations resumed full production.
	0735	Pipeline fully operational. TAPS mainline startup completed with start up of mainline pump at PS12.
	0900	Williams and PetroStar refineries in North Pole returned to normal supply of crude oil.
	End of Day	Pipeline reaches approximately 800,000 barrels per day (bpd) (pre-spill average was 927,000 bpd)
Oct 8		Pipeline throughput exceeds 1,000,000 bpd. Spill estimate 6,800 barrels (285,600 gallons); 2,108 barrels (88,541 gallons) of oil recovered.

- Oct 10** The UC declared spill response activities to date satisfactory, approved scope and details of on-going clean up plan and approved draft environmental remediation plan. Determined special processes of UC no longer required. ICS discontinued at 1800 and transitioned to project management. 3,095 barrels (130,000 gallons) of oil recovered.
- Oct 18** 1830 Four additional bullet strikes discovered near MP 400, approximately one mile north of the incident. Bullet strikes penetrated the outer insulation jacket and caused sufficient damage to the pipe wall to require repair.
- Oct 19** Both sides of the pipeline walked and re-examined from MP 395 to PS7 MP 414.
- Two sleeves were applied to repair the damage from the additional four bullet strikes discovered on October 18. The pipeline was not shut down.
- Oct 20** Both sides of pipeline walked and re-examined from CKV 63 (MP 432) to Livengood (MP 397).
- Oct 21** APSC crews have recovered and re-injected a total of 171,234 gallons of crude oil into the pipeline at PS7. The recovered fluids are primarily crude oil but may include water from the permafrost melt and snowmelt.
- Oct 28** APSC crews have recovered and re-injected a total of 174,452 gallons of crude oil into the pipeline at PS7. Crude oil recovery rates have decreased significantly due to diminishing amounts of free oil and decreasing ambient temperatures with the onset of winter in Interior Alaska.
- Jan 4** A total of 175,749 gallons of liquids (primarily crude oil) has been recovered from the spill site. All trees that were heavily oiled and those trees whose roots were affected by subsurface oiling have been removed and stacked on site.
- Jan 9** APSC remobilized for the cleanup phase beginning this date.

For additional information on the status of the cleanup operation, visit the ADEC website at:

<http://www.state.ak.us/dec/dspar/perp/011004301/index.htm>