



***Federal Railroad Administration
Office of Safety
Headquarters Assigned
Accident Investigation Report
HQ-2006-32***

***Union Pacific (UP)
Dingle, Idaho
May 20, 2006***

Note that 49 U.S.C. §20903 provides that no part of an accident or incident report made by the Secretary of Transportation/Federal Railroad Administration under 49 U.S.C. §20902 may be used in a civil action for damages resulting from a matter mentioned in the report.

1. Name of Railroad Operating Train #1 Union Pacific RR Co. [UP]		1a. Alphabetic Code UP		1b. Railroad Accident/Incident No. 0506PC013	
2. Name of Railroad Operating Train #2 N/A		2a. Alphabetic Code N/A		2b. Railroad Accident/Incident N/A	
3. Name of Railroad Responsible for Track Maintenance: Union Pacific RR Co. [UP]		3a. Alphabetic Code UP		3b. Railroad Accident/Incident No. 0506PC013	
4. U.S. DOT_AAR Grade Crossing Identification Number		5. Date of Accident/Incident Month Day Year 05 20 2006		6. Time of Accident/Incident 01:14: <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM	

7. Type of Accident/Incident (single entry in code box)					
1. Derailment	2. Head on collision	3. Rear end collision	4. Side collision	5. Raking collision	6. Broken Train collision
7. Hwy-rail crossing	8. RR grade crossing	9. Obstruction	10. Explosion-detonation	11. Fire/violent rupture	12. Other impacts
13. Other (describe in narrative)					01

8. Cars Carrying HAZMAT 0	9. HAZMAT Cars Damaged/Derailed 0	10. Cars Releasing HAZMAT 0	11. People Evacuated 0	12. Division Pocatello
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13. Nearest City/Town Montpelier		14. Milepost (to nearest tenth) 104.37	15. State Abbr Code N/A ID	16. County BEAR LAKE
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17. Temperature (F) (specify if minus) 75 F	18. Visibility (single entry) Code 1. Dawn 3. Dusk 2. Day 4. Dark 2	19. Weather (single entry) Code 1. Clear 3. Rain 5. Sleet 2. Cloudy 4. Fog 6. Snow 1	20. Type of Track Code 1. Main 3. Siding 2. Yard 4. Industry 1
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21. Track Name/Number Single Main Track	22. FRA Track Code Class (1-9, X) 4	23. Annual Track Density (gross tons in millions) 53.4	24. Time Table Direction Code 1. North 3. East 4
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OPERATING TRAIN #1

25. Type of Equipment Consist (single entry)	1. Freight train	2. Passenger train	3. Commuter train	4. Work train	5. Single car	6. Cut of cars	7. Yard/switching	8. Light loco(s).	9. Maint./inspect.car	A. Spec. MoW Equip. Code 1	26. Was Equipment Attended? 1. Yes 2. No 1	27. Train Number/Symbol IDUSE-17
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28. Speed (recorded speed, if available) Code R - Recorded E - Estimated 49 MPH R	29. Trailing Tons (gross tonnage, excluding power units) 4031	30. Method(s) of Operation (enter code(s) that apply) a. ATCS g. Automatic block m. Special instructions b. Auto train control h. Current of traffic n. Other than main track c. Auto train stop i. Time table/train orders o. Positive train control d. Cab j. Track warrant control p. Other (Specify in narrative) Code(s) e. Traffic k. Direct traffic control f. Interlocking l. Yard limits				30a. Remotely Controlled Locomotive? 0 = Not a remotely controlled 1 = Remote control portable 2 = Remote control tower 3 = Remote control transmitter - more than one remote control transmitter 0
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31. Principal Car/Unit	a. Initial and Number	b. Position in Train	c. Loaded (yes/no)	32. If railroad employee(s) tested for drug/alcohol use, enter the number that were positive in the appropriate box.	Alcohol	Drugs
(1) First involved (derailed, struck, etc)	N/A	46	yes		0	0
(2) Causing (if mechanical cause reported)	N/A	N/A	N/A	33. Was this consist transporting passengers? (Y/N)	N	

34. Locomotive Units	a. Head End	b. Mid Train Manual	c. Remote	d. Manual	e. Remote	35. Cars	a. Freight	b. Pass.	c. Freight	d. Pass.	e. Caboose
(1) Total in Train	3	0	0	0	0	(1) Total in Equipment Consist	95	0	0	0	0
(2) Total Derailed	0	0	0	0	0	(2) Total Derailed	41	0	0	0	0

36. Equipment Damage This Consist	392002	37. Track, Signal, Way, & Structure Damage	328935	38. Primary Cause Code	T111	39. Contributing Cause Code	N/A
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Number of Crew Members				Length of Time on Duty			
40. Engineer/Operators N/A	41. Firemen 0	42. Conductors 1	43. Brakemen 0	44. Engineer/Operator Hrs 5	Mi 29	45. Conductor Hrs 5	Mi 29

Casualties to:	46. Railroad Employees	47. Train Passengers	48. Other	49. EOT Device? 1. Yes 2. No 1	50. Was EOT Device Properly Armed? 1. Yes 2. No 1
Fatal	0	0	0	51. Caboose Occupied by Crew? 1. Yes 2. No N/A	
Nonfatal	N/A	0	0		

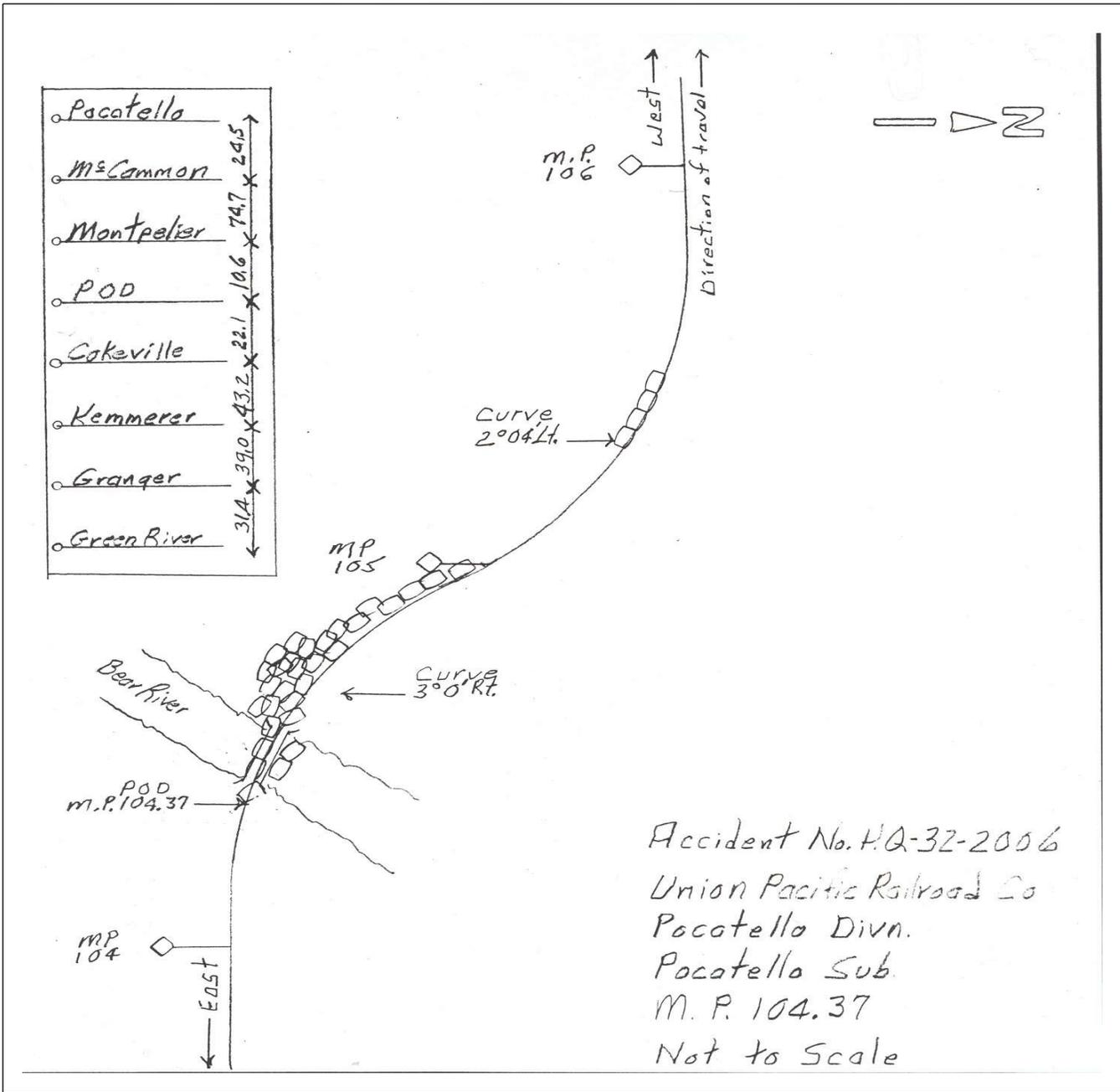
OPERATING TRAIN #2

52. Type of Equipment Consist (single entry)	1. Freight train	2. Passenger train	3. Commuter train	4. Work train	5. Single car	6. Cut of cars	7. Yard/switching	8. Light loco(s).	9. Maint./inspect.car	A. Spec. MoW Equip. Code N/A	53. Was Equipment Attended? 1. Yes 2. No N/A	54. Train Number/Symbol N/A
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55. Speed (recorded speed, if available) Code R - Recorded E - Estimated 0 MPH N/A	57. Method(s) of Operation (enter code(s) that apply) a. ATCS g. Automatic block m. Special instructions b. Auto train control h. Current of traffic n. Other than main track	57a. Remotely Controlled Locomotive? 0 = Not a remotely controlled 1 = Remote control portable
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108. DRAW A SKETCH OF ACCIDENT AREA INCLUDING ALL TRACKS, SIGNALS, SWITCHES, STRUCTURES, OBJECTS, ETC., INVOLVED.

HQ-32-06
sketch.jpg



109. SYNOPSIS OF THE ACCIDENT

On May 20, 2006, at 1:14 p.m., Mountain Daylight Time (MDT), a westbound Union Pacific Railroad Company (UP) freight train (IDUSE-17) derailed on the Pocatello Service Unit, Pocatello Subdivision at mile 104.37, about 11 miles east of Montpelier, Idaho. The train was traveling on a single main track at a recorded speed of 49 miles per hour (mph). The maximum authorized speed for this area of the accident is 50 mph.

The train consisted of three locomotives, 95 loaded platforms, 4,031 trailing tons and was 6,458 feet in length. A total of 41 platforms, 46th through 86th, derailed. There were no injuries reported and no release of hazardous materials. The estimated damage of the derailment was \$720,937 (\$392,002 equipment and \$328,935 track).

At the time of the accident it was daylight and clear. The temperature was 75°F.

The probable cause of the derailment was wide gage due to broken spikes (T111).

110. NARRATIVE

Circumstances Prior to Accident

On May 20, 2006 after completing more than the statutory off duty time, a crew consisting of an engineer and conductor reported for duty at Green River, Wyoming, at 7:45 a.m. MDT., their away from home terminal. The crew was assigned to operate a westbound UP platform train (IDUSE-17), from Green River to Pocatello, Idaho, a distance of 245 miles.

The train consisted of three locomotives, 95 loaded platforms, 4,031 trailing tons and was 6,458 feet in length. The crew boarded the train at about 8:45 a.m. MST., and performed a Class 3 air brake inspection before departing Green River. A Class 1 air brake inspection was completed in North Platte, Nebraska, on May 19, 2006.

The train approached the derailment area traveling geographically and timetable west. Timetable directions will be used throughout this report. The engineer was seated at the controls on the right (north) side of the leading locomotive and the conductor was seated on the left (south) side.

Approaching the accident site from east to west starting at mile 103.9, there is a tangent for 1,508 feet, and then a right hand 3-degree curve 628 feet to the point of derailment and 3,596 feet beyond. The grade approaching the accident area is 0.0 percent to the point of derailment and then ascending to a 0.14 percent grade.

According to the train crew, as the train approached the accident area, the trip had been uneventful.

The Accident

As the train approached the accident site and at the time the accident occurred, the train was being operated at a recorded speed of 49 mph. The speed was recorded by the event recorder of the controlling locomotive.

In the accident area, trains operate on a single main track under the authority of a Traffic Control System (TCS), controlled by a dispatcher in Omaha, Nebraska. The maximum authorized speed for freight trains is 50 mph as designated in the current Union Pacific Railroad Company, Portland Area Timetable No. 3.

According to the train crew there was no observation of any unusual track condition. According to the engineer, he felt a slight surge in the train, then the train went into a train line induced emergency air brake application. The engineer reduced the throttle setting and the train came to a stop. The engineer called the UP train dispatcher and notified them that the train had derailed. The dispatcher asked if they would require medical attention and if there was a fire, the response was negative. The conductor then left the train to survey the damages.

Emergency / Agencies Responders are as follows:

- Bear Lake Sheriffs Department
- Bear Lake County Fire Department

Analysis and Conclusion

The accident did not meet the requirement for FRA Post Accident Toxicology Testing, as required under Title 49 CFR, Part 219, Subpart C.

The investigation revealed the track gage had widened due to broken spikes on the field side of the high rail of the 3-degree right hand curve at UP mile 104.37.

A total of 41 loaded platforms derailed (46th through 86th platforms from the head end of the train).

There were no injuries reported and no release of hazardous materials.

On September 9, 2004, the FRA T-17 track geometry vehicle traversed the accident area no defective conditions were noted in the accident area.

On May 17, 2006, a UP track inspector conducted a track inspection by hi-railing between mile 59.50 and 114.90. No defective conditions were noted in the accident area.

Probable Cause

The Federal Railroad Administration determined the probable cause to be a wide gage due to broken spikes (T111).