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Annual Report

Of The

State Inspector

Of

Mines

Of

Wyoming

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YEAR ENDING
DECEMBER 31, 1964

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LETTER OF TRANSMITTAL

Honorable Clifford P. Hansen
Governor of Wyoming
State Capitol Building
Cheyenne, Wyoming

Dear Governor Hansen:

In compliance with the requirements of the Wyoming Law, I have the honor to transmit herewith the Annual Report of the State Inspector of Mines for the year 1964.

Respectfully submitted,

LYMAN FEARN

State Inspector of Mines

LF:ew

PERSONNEL OF INSPECTION OF MINES DEPARTMENT

LYMAN FEARN, State Inspector of Mines	Rock Springs
ALEX J. PASCOE, Deputy Inspector of Mines	Riverton
JACKSON R. FORBES, Deputy Inspector of Mines	Rock Springs
ELIZABETH WILLIAMS, Secretary	Rock Springs

STATE OF WYOMING

Under Public Law 552, 82nd Congress, approved July 16, 1952, Wyoming is now operating under the State Plan.

This agreement was approved by the Director of the Bureau of Mines and the State Inspector of Mines, September 29, 1952.

The State of Wyoming was the first State in the Union to qualify under this act.



CLIFFORD P. HANSEN

Governor of Wyoming—1963

A STATEMENT AND ACKNOWLEDGEMENT

We are happy to report there were no fatal accidents in the Coal Mining Industry of our State during the year, 1964. We suffered one fatal accident in Other Than Coal Mines.

The Board of Mines, Management, Employees, and others were very helpful in working out the problems of the Mining Industry in 1964.

We greatly appreciate the help we received.

Let us "WORK SAFELY" in 1965.

State Inspector of Mines

TABLE OF INSPECTIONS MADE

Regular Inspections	493
Special Investigations	11
Fatal Accident	1
Total	505

SUMMARY

Number of Counties Producing Coal	8
Number of Mines Reporting	18
Number of Men Employed Outside	268
Number of Men Employed Underground	112
Total Men Employed	380
Tons of Coal Under Cut With Machine	110,629.76
Tons of Coal Mined By Hand	16,397.55
Tons of Coal Strip Mined	2,976,771.04
Decrease from 1963	23,153.40
Number of Cutting Machines	15
Number of Coal Loading Devices	27
Average Days Operating—All Mines	192
Number of Nonfatal Accidents	21
Tons Produced Per Nonfatal Accident	147,799.49
Pounds of Permissible Powder Used	19,750.00
Pounds of Black Powder Used—Strip Mining	6,650.00
Pounds of Dynamite Used	243,740.00
Ammonium Nitrate—Blasting Agent	909,900.00
Tons of Coal Produced—Cardox	2,464.39
Tons of Coal Produced—Airdox	93,570.50
Other Explosives	1,336,695.00
Tons Produced Per Pound of Explosives	1.23
Total Pounds of Explosives	2,516,735.00

**SPECIAL INVESTIGATION
ROSEBUD STRIP MINE
HANNA, WYOMING**

On January 27, 1964, Walter Bradley, Union Representative for the Operating Engineers Union, came to the Office of the State Inspector of Mines at Rock Springs, Wyoming and said he had a complaint from the employees working at the Rosebud Strip Mine, property of the Rosebud Coal Company, located at Hanna, Wyoming. He claimed that there were some dangerous conditions existing at this property.

On January 28, 1964, Lyman Fearn, State Inspector of Mines, and Jackson R. Forbes, Deputy Inspector of Mines, made a visit to the Rosebud Strip Pits that were working near Hanna, Wyoming. We were accompanied by Milo Namtvedt, Mine Superintendent.

Number 4 Pit was the only Pit working. We also visited the Number 3 Pit. The following conditions were noted:

GENERAL: The number 2 Pit is finished. Number 1 Pit will be idle until late spring or summer. The Number 3 pit will also be idle until late summer. The Number 4 Pit is now on production. There were no high walls present and no dangerous conditions were noted by the Inspectors.

EQUIPMENT: Equipment appeared to be in good working condition. The work was progressing in a workman like manner and appeared to be reasonably safe. In discussing the complaint with the employees, they were of the opinion that the Number 1 Pit was going to be placed on production and there is considerable work to be done on this Pit before it can go on production. The management agreed to notify the State Inspector of Mines at Rock Springs, Wyoming before this Pit is placed on production. The Inspector or Inspectors will make a visit to this Pit and see that it is ready for production.

Respectfully submitted,

Lyman Fearn

State Inspector of Mines

Jackson R. Forbes
Deputy Inspector of Mines

CLASSIFICATION OF CAUSES OF ACCIDENTS

COAL

FATAL:

There were no fatal accidents.

NONFATAL:

Back Strain	2
Caught By Moving Equipment	4
Crushed By Moving Object	5
Fall of Rock	6
Slipping & Falling	4
Total	21

**SPECIAL INVESTIGATION
GUNN-QUEALY COAL COMPANY
QUEALY, WYOMING**

On February 10, 1964, at approximately 7 p.m. Lawrence Welch, Mine Foreman for the Gunn-Quealy Coal Company, notified Lyman Fearn, State Inspector of Mines, that Frank Budeslich, age 50, an employee of the Morrison-Knudsen Contracting Firm, and was employed as a Truck Driver, hauling from the Mine to the Tipple, a distance of approximately two miles, had been found near the Truck which was parked under the Loading Bin of the Gunn-Quealy Coal Company Mine. He appeared to be dead. The cause of death was thought to be a heart attack.

Mr. Fearn phoned Jackson R. Forbes, Deputy Mine Inspector, then they proceeded to the place where Frank Budeslich was found. He was found laying near the truck and a hand grease gun was near by. He was near the truck cab. The truck was nearly loaded. The ignition switch was off and the lights were not burning. Frank's gloves were in the cab of the truck.

There was no evidence present that the truck had been greased recently or that anything unusual had occurred. It was the opinion of those that came to him that he had been dead some 60 minutes or more. The body was viewed at the mortuary and a slight abrasion was present on the right knee.

On February 29, 1964, at 10 a.m. in the Council Chambers of the City Hall of Rock Springs, Peter Vase, County Coroner, held a Coroner's Court. The verdict of the Jurors of the Court was: That Frank Budeslich came to his death by apparent heart attack, cause or causes unknown.

Respectfully submitted,
Lyman Fearn
State Inspector of Mines

SUMMARY OF ACCIDENTS IN COAL MINES

FATAL:

There were no fatal accidents during 1964.

NONFATAL:

Gunn-Quealy Coal Company	8
Kemmerer Coal Company	
Elkol Mine	2
Sorensen Mine	2
Monolith Portland Midwest Co.	1
Pacific Power & Light Company	
Dave Johnston Plant	3
Roncoco Coal Company	1
Rosebud Coal Sales Company	1
Wyodak Resources Development Corp.	3
Total	21

**SPECIAL INSPECTION OF THE BIG ISLAND MINE
STAUFFER WYOMING SODA ASH PROJECT
21 MILES NORTHWEST OF GREEN RIVER, WYOMING**

On February 19, 1964, at midnight, Lyman Fearn, State Inspector of Mines, made an inspection of the Shaft of the Big Island Mine of Stauffer Chemical Company, located near Big Island on the Green River, approximately 20 miles Northwest of Green River City. Accompanied by Robert A. Maurer, Mine Superintendent for the Big Island Mine, we spent one and one-half hours in observing the work as it was progressing.

GENERAL: The Stauffer Chemical Company is endeavoring to seal off the water that is coming through the breaks in their shaft. Winston Bros. is their contractor doing the work. They are endeavoring to grout the shafts chemically. The work has progressed down 550 feet in the Man Shaft. Mike Steeling is supervising the work. He is an old hand and has had considerable experience in Shaft Work. He has four men comprising the crew. The work is done from the Main Cage. Chain railings are used and rope railings are placed when workmen are required to work outside the chain work area. Safety belts were present and are used when necessary. The workmen are wearing hard hats, hard toe shoes, and goggles.

From my observation the work was being done in a reasonably safe manner. The working time is from midnight to eight a.m., six days per week.

Lyman Fearn
State Inspector of Mines

**SPECIAL INVESTIGATION OF ACCIDENT
INVOLVING WILLIAM DOMSON, LOADER OPERATOR
FMC CORPORATION, INORGANIC CHEMICALS DIVISION
GREEN RIVER, WYOMING**

On March 2, 1964, at 7:45 p.m., Mr. William Domson, Loader Operator at the Westvaco Mine was injured by a piece of trona slipping from the rib of a stump in room 10 of the French Mining Panel. This piece of trona was five feet long, 18 inches wide and 22 inches high. A bump was the cause of the slippage, which caught Mr. Domson's right leg between the knee and ankle. He suffered a compound fracture.

Mr. Domson was brought to the hospital here in Rock Springs by ambulance. Later an embolism set in and he was transferred to the Holy Cross Hospital in Salt Lake City. Jackson R. Forbes made an investigation of this accident on Monday morning, March 9, 1964. Accompanied by Mr. Tom Bernatis, Mine Superintendent, the following conditions were noted:

There was nothing out of the ordinary except all these stumps are always on the move and have to be watched closely at all times. It was reported to this Inspector that Mr. Domson was backing his loader out of one room into another room when the trona fell causing his injury.

Jackson R. Forbes
Deputy Inspector of Mines

**INVESTIGATION IN THE DEATH OF DON McCANNON
EMPLOYEE OF RIVERTON CONCRETE PRODUCTS, INCORPORATED
NORTH FEDERAL BOULEVARD
RIVERTON, WYOMING**

On March 30, 1964, Alex J. Pascoe, Deputy Inspector of Mines, made an investigation into the death of Don McCannon, an employee of Riverton Concrete Products Company.

The Investigation brought forth that Don McCannon, age 56, married, had been off work during the winter months and had returned to work on March 23, 1964. Mr. McCannon fell to the floor of the plant. Employees gave artificial respiration immediately. Mr. McCannon was rushed to Memorial Hospital where he was pronounced dead on arrival by Dr. Ashbaugh.

The autopsy showed Mr. McCannon died of a heart attack.

Alex J. Pascoe
Deputy Inspector of Mines

**VISIT
DIVERSION TUNNEL**

On September 30, 1964, Lyman Fearn, State Inspector of Mines, accompanied by Robert E. Sundin and Frank R. Harman, from the Department of Health of the State of Wyoming, made a visit to the Rob Roy Dam, located three miles North of Keystone, Albany County, Wyoming.

GENERAL: This diversion tunnel had broken through. It is approximately 310 ft. in length. Steel arch sets were used the full length. Due to water, we were unable to go into the Tunnel. It will be lined with concrete. All work appeared to be done in a workman like manner. The work on the dam was progressing.

Lyman Fearn
State Inspector of Mines

**SPECIAL INSPECTION
HIGHWAY PROJECT
OLD NO. 8 MINE
UNION PACIFIC COAL COMPANY**

On October 13, 1964, Lyman Fearn, State Inspector of Mines, made a Visit to the Highway Project, near the Portal of the Old No. 8 Mine of the Union Pacific Coal Company. The following conditions were noted:

GENERAL: Most of the area has been filled with sand. Tests were made with an approved type Safety Lamp. No methane or oxygen deficiency were noted.

SAND FILL: There is approximately five to ten days work left to complete this Project. The work was progressing in a safe and workman like manner. The Project is working two shifts of three men each.

Total Men — 6 Contractor
Highway — 1

Lyman Fearn
State Inspector of Mines

SPECIAL INVESTIGATION OF A COAL MINE NEAR GLENROCK, WYOMING

On November 2, 1964, Lyman Fearn, State Inspector of Mines, phoned Joseph Sullivan, Attorney at Law of Douglas, Wyoming, as a Mrs. Card had complained about an Opening in an Old Mine, located South of Glenrock, Wyoming.

Jackson R. Forbes, Deputy Inspector of Mines, went to Glenrock to investigate this matter on November 4, 1964, being sent by Lyman Fearn, State Inspector of Mines. Upon arriving at Glenrock, the Inspector phoned Mr. Sullivan to find out who would direct him to the Open Hole in the Old Mine. The Mayor of Glenrock went with this Inspector and showed him where the Old Mine was located. Mr. Morgan, the Mayor, told the Inspector to go see Mr. Glenn Brubaker, owner of the land where this mine is located. Upon contacting Mr. Brubaker, this Inspector was told to contact Mr. Howard Bailey, President of the Lion's Club about using this Old Mine for a Bomb Shelter. The Inspector went to the Mine Entrance with a Safety Lamp but was only able to go into the mine approximately 30 to 40 feet from the entrance till his light went out; showing there was Black Damp in this mine.

Upon finding Black Damp there would be no point in taking this matter up with Mr. Bailey. The Inspector posted the entrance with danger signs which had his name and date attached. Then the Inspector went back to Mr. Brubaker, telling him the condition of the mine. He promised this Inspector that they would close this opening in the next day or two. Jackson R. Forbes, Deputy Inspector, checked this mine twice with his Safety Lamp to make sure about the Black Damp and found an abundance of Black Damp.

Jackson R. Forbes
Deputy Inspector of Mines

EXAMINATIONS FOR MINE INSPECTOR, MINE FOREMAN AND MINE EXAMINER FOR 1964

MINE INSPECTOR

Hartle, Max Jeffrey City
Pierantoni, Marino Rock Springs

MINE FOREMAN

Hartle, Max Jeffrey City
Tanaka, Takayuke Rock Springs

MINE EXAMINER

Cavalli, Pete Thermopolis
Tanaka, Takayuke Rock Springs

SHOT FIRER'S CERTIFICATES ISSUED DURING 1964 FOR GASEOUS MINES

Name	Cert. No.	Date
Corhn, Barry	3881	2/28/64
Lemmon, William Lyle	3927	10/2/64
Martin, Edward L.	3875	2/10/64
Reitz, George E.	3877	3/17/64
Rollins, Kermitt A.	3882	3/6/64
Roy, John	3879	2/20/64
Sanchez, John	3954	12/16/64

**SHOT FIRER'S CERTIFICATES ISSUED DURING 1964
FOR NON GASEOUS MINES**

Name	Cert. No.	Date
Arnett, Phil	3900	5/11/64
Bell, Eugene	3950	12/7/64
Bell, Guy	3931	10/14/64
Berlie, Darrell	3889	5/1/64
Brewer, Stanley	3949	12/7/64
Brownell, D. P.	3896	5/1/64
Brownell, James M.	3887	5/1/64
Brownell, Philip	3892	5/1/64
Burke, William	3941	11/12/64
Burns, Ray	3935	11/2/64
Caster, Rex	3952	12/7/64
Cornish, L. W.	3955	12/31/64
Crossland, Dean	3923	9/21/64
Cruise, John	3939	11/2/64
Davis, Thomas	3895	5/1/64
Davis, Vern	3901	5/19/64
Dillaveu, Wilbur	3925	9/21/64
Dobbs, Gilbert A.	3909	6/15/64
Duncan, Jerry	3898	5/4/64
Dycus, Stephen	3886	5/1/64
Farrelly, Matthew	3938	11/2/64
Farthing, R. E.	3878	2/20/64
Finch, Lowell	3916	6/15/64
Ford, Phillip	3953	12/7/64
Formo, John	3905	5/26/64
Fox, Wayne	3883	4/2/64
Fredericksen, Keneth	3924	9/21/64
Fredricks, John	3945	11/30/64
Galletly, William A.	3910	6/15/64
Graves, W. C.	3942	11/17/64
Hadgrave, Carl	3926	9/29/64
Hafner, N. T.	3868	1/15/64
Hahn, Kenneth A.	3897	5/1/64
Hambrick, Walter	3940	11/9/64
Harshberger, Dean	3893	5/1/64
Helter, Jr., Alfred J.	3871	1/15/64
Hendrix, Ronald	3929	10/12/64
Holland, Joe	3919	7/1/64
Hoven, W. O.	3902	5/22/64
Jahnig, Robert	3920	8/17/64
John, Lewis L.	3918	7/1/64
Kay, Charles E.	3899	5/11/64
Kalian, Guy H.	3932	10/14/64
King, John	3867	1/15/64
Kolurich, Robert W.	3911	6/15/64

SHOT FIRER'S CERTIFICATES—Continued

Name	Cert. No.	Date
Kraft, Donald D.	3907	5/26/64
Laird, Henry I.	3880	2/27/64
Lanier, James	3946	11/30/64
La Trey, Robert W.	3865	1/15/64
Lewis, Elvin L.	3872	1/27/64
Lopez, Edward	3947	12/7/64
Lopez, Robert	3894	5/1/64
Lopez, Steven	3948	12/8/64
Love, James W.	3944	11/30/64
Lyn, Leslie	3908	5/26/64
McDaniel, Larry J.	3912	6/15/64
McKinney, Kenneth	3864	1/15/64
Martin, Don O.	3884	4/7/64
Michael, Norman	3903	5/26/64
Morrison, W. A.	3928	9/29/64
Morton, Dale	3873	1/27/64
Newell, Dennis C.	3913	6/15/64
Pecheco, Louis	3870	1/15/64
Patton, Wesley	3917	6/15/64
Penny, Windsor	3888	5/1/64
Record, Raymond	3930	10/12/64
Roat, Richard V.	3914	6/15/64
Roberts, Benjamin F.	3915	6/15/64
Sisco, John	3906	5/26/64
Shinabar, C. A.	3869	1/15/64
Snyder, Claude	3890	5/1/64
Snyder, L. E.	3891	5/1/64
St. John, Henry	3863	1/15/64
Terry, James	3866	1/15/64
Teitrick, Jere	3904	5/26/64
Townsend, Harold	3951	12/7/64
Walters, Roy	3937	11/2/64
Wangh, Theodore	3921	8/17/64
Weaver, Joe	3933	11/2/64
Welch, E.	3936	11/2/64
Wilson, Roy	3885	5/1/64
Withrow, Thomas	3943	11/30/64
Woods, Arthur W.	3934	11/2/64

SHOT FIRER'S EXAMINATIONS

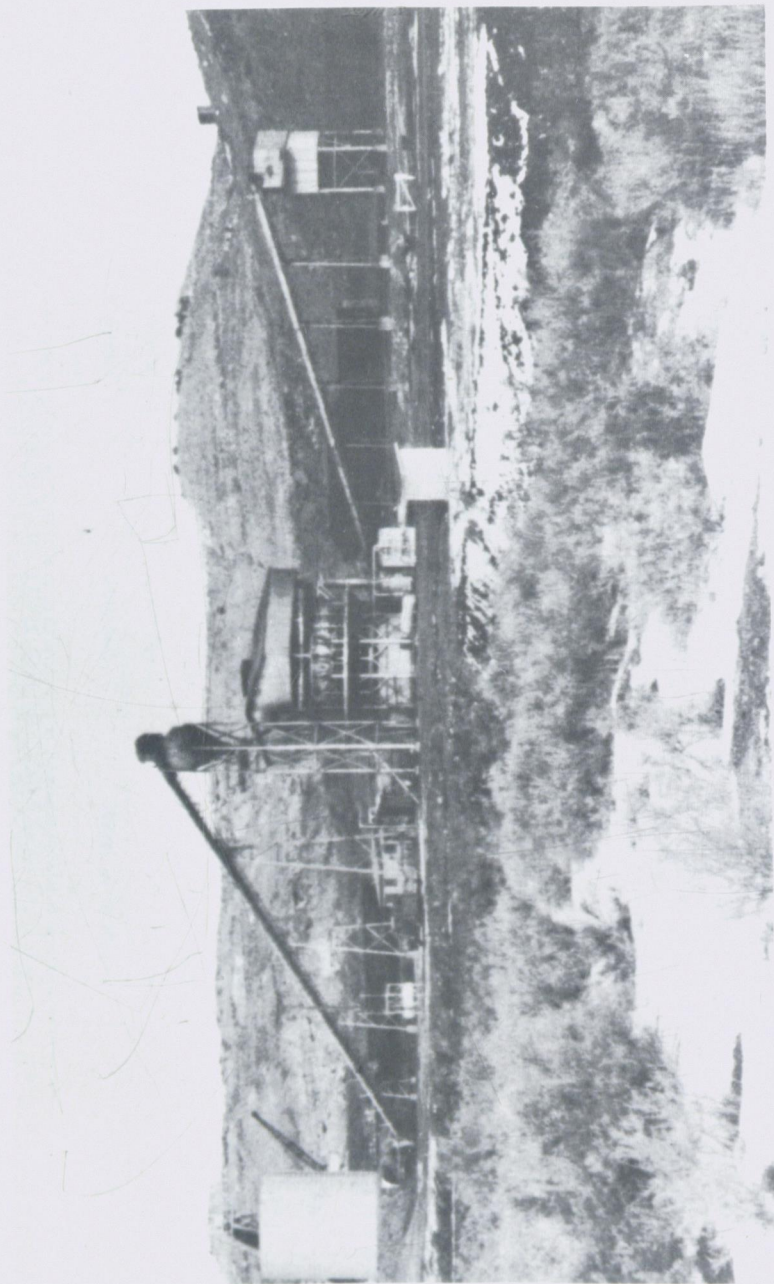
Number of Certificates Granted for Gaseous Mines	7
Number of Certificates Granted for Non-Gaseous Mines	83
TOTAL	90

**MAJOR COAL MINE DISASTERS WHICH HAVE
OCCURRED IN THE STATE OF WYOMING**

Date	Name of Mine	Location	Nature of Accident	Number Killed
Mar. 4, 1881	Almy	Almy	Explosion	38
Mar. 13, 1886	Almy No. 4	Almy	Explosion	13
Mar. 20, 1895	Red Canyon	Red Canyon	Explosion	60
Feb. 25, 1901	Diamondville No. 1	Diamondville	Mine Fire	28
Oct. 26, 1901	Diamondville	Diamondville	Explosion	22
June 30, 1903	Hanna No. 1	Hanna	Explosion & Fire	169
Dec. 1, 1905	Diamondville No. 1	Diamondville	Explosion	18
Mar. 28, 1908	Hanna No. 1	Hanna	Explosion	59
Jan. 20, 1912	Kemmerer No. 4	Kemmerer	Explosion	6
April 29, 1914	U. P. No. 2	Cumberland	Mine Cars	5
July 26, 1920	No. 6	Sublet	Blowing Up of Powder Magazine	8
Aug. 14, 1923	Frontier No. 1	Kemmerer	Explosion	99
Sept. 16, 1924	Sublet No. 5	Sublet	Explosion	39
Feb. 11, 1938	Vail Mine	65 Mi. NE of Afton	Explosion	5
Nov. 9, 1938	Muddy Creek Mine	29 Mi. SW of Rawlins	Cave In	5

COAL PRODUCTION FROM 1909 THROUGH 1964

YEAR	TONNAGE	MEN EMPLOYED
1909	1,425,748.00	2,286
1910	1,953,919.00	2,935
1911	1,744,593.64	1,771
1912	1,840,887.58	2,482
1913	1,865,885.05	2,114
1914	2,083,928.92	2,394
1915	1,808,820.85	2,016
1916	2,169,512.65	2,059
1917	2,741,765.88	2,197
1918	9,417,269.25	7,723
1919	8,166,008.00	7,725
1920	9,580,274.15	8,166
1921	8,303,479.00	8,037
1922	5,976,474.00	9,192
1923	7,587,676.00	7,511
1924	6,714,554.00	7,210
1925	6,557,576.00	6,364
1926	6,495,815.00	5,912
1927	6,738,561.00	5,639
1928	6,553,174.00	4,768
1929	6,690,779.00	5,081
1930	6,070,769.00	4,868
1931	5,000,365.77	4,675
1932	4,168,418.62	4,236
1933	4,004,602.41	3,792
1934	4,376,790.96	3,778
1935	5,165,288.69	4,090
1936	5,791,202.25	4,751
1937	5,950,229.81	4,996
1938	5,219,054.36	4,868
1939	5,411,017.81	4,287
1940	5,350,702.18	4,321
1941	6,670,807.93	4,506
1942	8,154,860.57	4,776
1943	9,237,728.68	4,675
1944	9,559,592.76	4,584
1945	9,836,798.34	4,814
1946	7,616,680.58	4,500
1947	8,054,750.76	4,348
1948	6,408,302.34	4,212
1949	5,972,639.63	3,814
1950	6,341,898.87	3,598
1951	6,288,157.40	3,187
1952	6,106,948.52	2,903
1953	5,243,715.37	2,788
1954	2,833,352.61	1,532
1955	2,921,562.75	979
1956	2,555,452.10	1,016
1957	2,118,366.14	634
1958	1,631,234.00	587
1959	1,976,596.61	479
1960	2,004,147.14	439
1961	2,520,258.30	446
1962	2,574,560.38	449
1963	3,126,942.00	371
1964	3,103,798.35	380



New Coke Plant located at the Gunn-Quealy Coal Company, Rainbow No. 7 Mine.

TABLE SHOWING TONNAGE, MEN EMPLOYED, DAYS WORKED, ETC.

NAME OF MINE	NAME OF COMPANY OR OPERATOR	POST OFFICE	Number of Days Worked	Av. Number of Men Employed	Total Tons Produced
Rainbow No. 7	Gunn Quealy Coal Company	Quealy	172	54	93,570.50
Elkol Strip Mine	Kemmerer Coal Company	Frontier	247	22	161,445.25
Sorenson Strip Mine	Kemmerer Coal Company	Frontier	249	51	443,641.00
Brilliant No. 8	Kemmerer Coal Company	Frontier	38	48	16,397.55
Hanna No. 2 Strip	Monolith Portland Midwest Co.	Hanna	221	13	65,490.63
Wyodak Strip Mine	Wyodak Resources Development Corp.	Gillette	276	33	488,845.91
Dead Man Coal Mine	Did not work.				
Roncco Coal Mine	Roncco Coal Company	Thermopolis	184	10	6,993.82
Welch Coal Strip Mine	Welch Coal Company	Sheridan	265	2	18,760.00
George Coal Mine	Ben George Operator	Hudson	51	5	514.25
T. and K. Coal Mine	T. and K. Coal Company	Kirby	154	4	2,464.39
Dusky Diamond Mine	Hornick & Kovach Operators	Thermopolis	105	4	2,331.00
Antelope Strip Mine	Best Coal Company	Versé	336	2	4,576.00
Hanna Basin Strip	Hanna Basin Coal Company	Hanna	40	6 est.	10,000.00
Dave Johnston Fuel Strip Mine	Pacific Power and Light Company	Glenrock	266	30	999,279.00
Van Dyke Mine	Edwin Swanson Operator	Rock Springs	116	2	3,741.00
Big Horn Strip Mine	Big Horn Coal Company	Sheridan	265	50	412,761.00
Rosebud Strip Mine	Rosebud Coal Sales Company	Hanna	272	39	372,458.00
American Humates Mine	American Humates Corp.	Glenrock	260	5	529.05
Total			3,467	380	3,103,798.35
Average number of days worked - All Mines			192		

16 BY COUNTIES: TABLE SHOWING COAL PRODUCTION FOR 1964 AS COMPARED WITH 1963

	TONNAGE FOR 1963	TONNAGE FOR 1964	INCREASE	DECREASE
1. CAMPBELL COUNTY:				
Wyodak Resources Development Corp.	495,885.75	488,845.91		7,039.84
Total	495,885.75	488,845.91		7,039.84
2. CONVERSE COUNTY:				
American Humates Incorporated	3,348.01	529.05		2,818.96
Best Coal Company - Antelope Strip Mine	4,218.00	4,576.00	358.00	
Pacific Power & Light Company	1,022,430.00	999,276.00		23,154.00
Total	1,059,996.01	1,004,381.05		55,614.96
3. FREMONT COUNTY:				
George Coal Mine - Ben George Operator	761.00	514.25		246.75
Total	761.00	514.25		246.75
4. SWEETWATER COUNTY:				
Gunn Quealy Coal Company - Rainbow No. 7 Mine	67,959.90	93,570.00	25,610.10	
Van Dyke Coal Mine - Edwin L. Swanson	2,383.00	3,741.00	1,358.00	
Total	70,343.90	97,311.00	26,967.10	
5. LINCOLN COUNTY:				
Kemmerer Coal Company - Elkal Strip	179,140.70	161,445.25		17,695.45
Kemmerer Coal Company - Brilliant No. 8	38,203.95	16,397.55		21,806.40
Kemmerer Coal Company - Sorenson Pit	394,708.00	443,641.00	48,933.00	
Total	612,052.65	621,483.80	9,431.15	
6. CARBON COUNTY:				
Monolith Portland Midwest - Hanna No. 2 Strip	63,356.31	65,490.00	2,133.69	
Hanna Basin Coal Company	49,597.93	10,000.00 est.		39,597.93
Rosebud Coal Sales Company	418,410.00	372,458.00		45,952.00
Total	531,364.24	447,948.00		83,416.24
7. HOT SPRINGS COUNTY:				
Roncco Coal Company	6,415.00	6,993.82	578.82	
T and K Coal Company	2,567.00	2,464.39		102.61
Dusky Diamond Coal Company	943.20	2,331.00	1,387.80	
Total	9,925.20	11,789.21	1,864.01	102.61

BY COUNTIES: TABLE SHOWING COAL PRODUCTION FOR 1964 AS COMPARED WITH 1963 17

	TONNAGE FOR 1963	TONNAGE FOR 1964	INCREASE	DECREASE
8. SHERIDAN COUNTY:				
Big Horn Coal Company	361,223.00	412,761.00	51,538.00	
Welch Coal Company	14,600.00	18,760.00	4,160.00	
Total	375,823.00	431,521.00	55,698.00	

DECREASE OR INCREASE FOR 1964 AS COMPARED TO 1963

1. Campbell County shows a decrease of 7,039.84.
2. Converse County shows a decrease of 55,614.96.
3. Fremont County shows a decrease of 246.75.
4. Sweetwater County shows an increase of 26,967.10.
5. Lincoln County shows an increase of 9,431.15.
6. Carbon County shows a decrease of 83,416.24.
7. Hot Springs County shows an increase of 1,864.01.
8. Sheridan County shows an increase of 55,698.00.

1964 Decrease of Tonnage under 1963 is 23,144.40.

EXPLOSIVES USED AND COAL PRODUCED
POUNDS OF POWDER

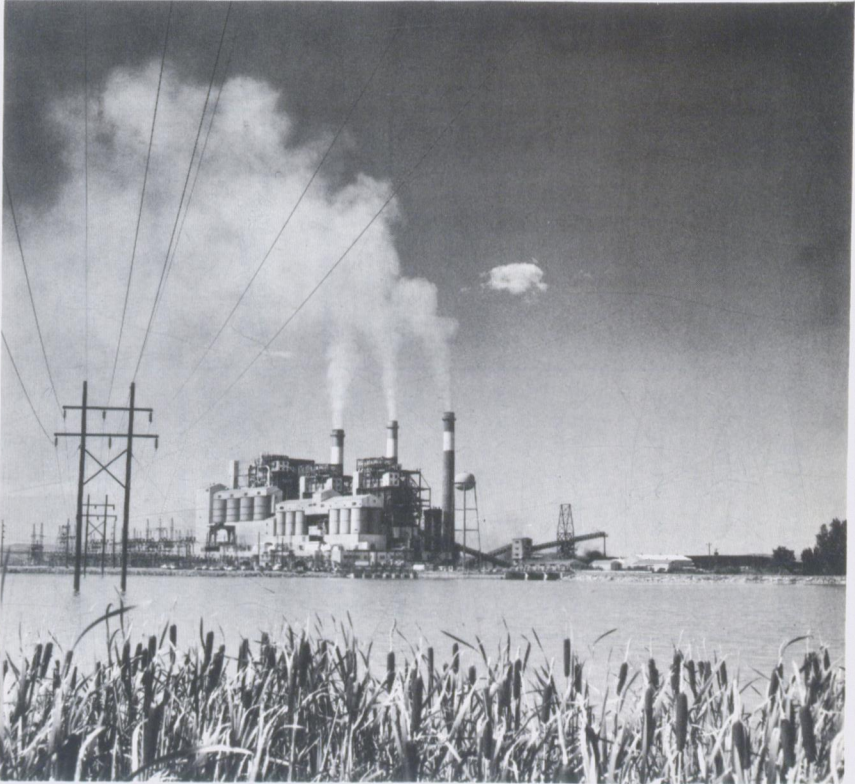
	Black	Other	Ammonia Nitrate	Permissible	Dynamite	Cardox	Airtox	Tonnage
GUNN QUEALY COAL COMPANY Rainbow No. 7				5,600.00			Airtox	93,570.50
KEMMERER COAL COMPANY Elkol Strip Mine		9,600.00	146,850.00					161,445.25
Sorenson Strip Mine		19,500.00	516,650.00	7,500.00				443,641.00
Brilliant No. 8					41,000.00			16,397.35
MONOLITH PORTLAND MIDWEST COMPANY Hanna No. 2 Strip Mine					est. 500.00			65,490.63
HANNA BASIN COAL COMPANY Hanna Basin Strip Mine					131,440.00			10,000.00 est.
WYODAK RESOURCES DEVELOPMENT COMPANY Wyodak Strip Mine								488,845.91
BIG HORN COAL COMPANY Big Horn Strip Mine	6,650.00	89,950.00						412,761.00
RONCCO COAL COMPANY Roncco Coal Mine				5,100.00				6,993.82
WELCH COAL COMPANY Welch Strip Mine					1,250.00			18,760.00
EDWIN SWANSON The Van Dyke Mine				650.00				3,741.00
BEST COAL COMPANY Antelope Mine					1,200.00			4,576.00
BEN GEORGE George Coal Mine				100.00				514.25
T and K COAL COMPANY T and K Coal Mine						Cardox		2,464.39
DUSKY DIAMOND COAL COMPANY Grass Creek Coal Mine				800.00				2,331.00
PACIFIC POWER & LIGHT COMPANY Dave Johnston Fuel Strip Mine			246,400.00		68,850.00			999,279.00
ROSEBUD COAL SALES COMPANY Rosebud Strip Mine	1,217,645.00							372,458.00
AMERICAN HUMATES, INCORPORATED American Humates Mine & Plant								529.05
TOTAL	6,650.00	1,336,695.00	909,900.00	19,750.00	243,740.00			3,103,798.35

SUMMARY OF COAL MINES MANHOURS, FREQUENCY AND SEVERITY RATES

NAME OF OPERATOR OR COMPANY	MAN HOURS		FREQUENCY		SEVERITY		UNDERGROUND		SURFACE		Average Number of Employees Excluding Office Workers	Total Number of Employees Including Office Workers
	Underground	Surface	Underground	Surface	Underground	Surface	Fatal	Non-Fatal	Fatal	Non-Fatal		
Dusky Diamond Coal Company Grass Creek Coal Mine	4,200.00										8	8
Hanna Basin Coal Company Hanna Basin Strip Mine		8,000 est.									6	6
T. and K. Coal Company T. and K. Coal Mine	5,896.00										3	4
Rosebud Coal Sales Company Rosebud Strip Mine Shop - Tipple		78,974.00		12.00		354.00				1	37	39
Best Coal Company Antelope Strip Mine		2,688.00									2	2
American Humates Strip Mine Shop and Plant		10,400.00									5	5

SUMMARY OF INJURIES -- COAL MINES

Total Manhours	642,081.00
Fatal Injuries	0
Last Time Injuries	21
Number of Days Lost Time	577.
Frequency per million manhours	32.00
Severity Rate per million manhours	898.00



The Dave Johnston Steam-Electric Plant. Named in honor of W. D. "Dave" Johnston, vice president retired and presently director emeritus of the Company, and a tireless worker for Wyoming development.

Two 100,000-kilowatt turbine generators and one turbine generator with 220,000-kilowatts rated capacity.

The cost is approximately \$70,000,000 for the plant and fuel development, and railroad.

It is located approximately 7 miles east of Glenrock and 30 miles east of Casper, Wyoming, along Highway 20-26.

NON-FATAL ACCIDENTS FOR 1964 - COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
November 1963 21	James Noble	Driller	Piece of coal fell, striking employee on his head.	Sore neck.	Gunn-Quealy Coal Co. Rainbow No. 7 Mine
January 1964 3	Joseph W. Kight	Fuel Hauler Operator	Trailer mashed left side of the cab, injuring driver.	Lacerations on back of rt. hand & rt. leg. Bruises on left leg below knee.	Pacific Power & Light Co. Dave Johnston Plant Glenrock, Wyoming
23	Joe Arguello	Miner	Piece of tin hit him on shoulder and face.	Contusion of chest & separation of acromioclavicular joint.	Rancco Coal Company Thermopolis, Wyoming
April 1964 14	Alex Briggs	Laborer	Employee fell from coal loading ramp.	Sprained left ankle.	Monolith Portland Midwest Co. Hanna No. 2 Hanna, Wyoming
20	Clyde Morrish	Shovel Operator	Workman stepped on tread of electric shovel & twisted his foot.	Fracture of left fibula.	Wyodak Resources Dev. Corp. Gillette, Wyoming
June 1964 11	Robert D. Morrison	Driver of Dart Fuel Hauler	Workman hit a bump in the haul road, hurting his back.	Operation on his back, August 18, 1964.	Pacific Power & Light Co. Dave Johnston Plant Glenrock, Wyoming
27	Glen J. Honadel	Heavy Equip. Operator	Silo cover forced workman back.	Bruises on back & abdomen.	Pacific Power & Light Co. Dave Johnston Plant Glenrock, Wyoming
August 1964 6	Liesle Haight	Equipment Operator	Employee slipped & snapped his neck.	Cervical spine strain.	Wyodak Resources Dev. Corp. Gillette, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
September 1964 2	Harry Sawick	Joy Loader Operator .	Workman lifted a piece of rock out of loader & twisted his back.	Acute back sprain.	Gunn-Quealy Coal Company Rainbow Mine Quealy, Wyoming
17	Harold M. Roach	Truck Driver	While operating ratchet on trailer workman lost his balance.	Pulled muscle in his back.	Kemmerer Coal Company Sorensen Mine Frontier, Wyoming
October 1964 6	Nick Gravich	Roof Bolter	Falling rock struck workman.	Contusion of nose, and ligamentous sprain, lumbar spine.	Gunn-Quealy Coal Co. Rainbow Mine Quealy, Wyoming
19	Harry J. Oliver	Car Dropper	Right foot slipped off stirrup and left foot went under wheel of railroad car.	Left foot crushed, amputated 2nd and 4th toes at first joint.	Rosebud Coal Sales Company Hanna, Wyoming
28	Mike Likwartz	Shuttle Car Operator .	Falling rock struck workman on his hand.	Bruised and lacerated hand.	Gunn-Quealy Coal Company Rainbow Mine
November 1964 2	Alvin Christian	Roof Bolter	Employee slipped while moving bolting machine.	Hurt knee, cartilage injury.	Gunn-Quealy Coal Company Rainbow Mine
6	Robert Showalter	Truck Driver	Workman twisted his knee getting out from under Euclid Coal Hauler.	Injured left knee.	Wyodak Resources Dev. Corp. Gillette, Wyoming
13	Jose Romero	Joy Helper	Small rock fell striking him on his back.	Contusion, right sacroiliac joint.	Gunn-Quealy Coal Company Rainbow Mine

NON-FATAL ACCIDENTS FOR 1964 - COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
November 1964 20	Tony Wesswick	Roof Bolter	Rock fell striking workman's foot.	Contusion, left foot.	Gunn-Quealy Coal Company, Rainbow Mine Quealy, Wyoming
December 1964 4	Angelo Ravanello	Car Dropper	Faulty brakes caused car to hit loaded cars throwing workman against front of car.	Fracture of left clavicle.	Kemmerer Coal Company Elkol Tipple Frontier, Wyoming
9	Nick Beyda	Tippleman.	Workman's hand was caught in worn conveyor.	Laceration and dislocation 4th and 5th fingers, left hand.	Kemmerer Coal Company Sorensen Surface Mine Frontier, Wyoming
11	Anton Starman	Plant Operator	Due to power failure, machinery shut off. While pulling on pulley to give it a boost, workman caught his hand in V Belt Pulley.	Tip of right 3rd finger and index finger amputated.	Gunn-Quealy Coal Company Coke Plant Quealy, Wyoming
31	Lanny C. Bettine	Driller	Falling rock hit workman.	Compound fracture and laceration of nose and crushed ankle.	Kemmerer Coal Company Elkol Mine Frontier, Wyoming

OTHER THAN COAL

YEAR ENDING

DECEMBER 31, 1964

**INVESTIGATION OF FATAL ACCIDENT
INVOLVING JAMES W. JOHNSTON
COLORADO FUEL & IRON CORPORATION
SUNRISE, WYOMING**

On June 18, 1964, Jackson R. Forbes, Deputy Inspector of Mines, was notified by Lyman Fearn, State Inspector of Mines, that a Fatal Accident had occurred at the Sunrise Mine. I left at once for Sunrise, Wyoming, arriving there at 6:30 p.m. As no one was at the mine upon my arrival, I contacted George Defond, Safety Engineer. Les Wahl, Mine Superintendent, came to my hotel room at 10:30 p.m.

The following morning, June 19, 1964 at 7 a.m. the following men accompanied the Inspector to the place of this accident to make this investigation: Les Wahl, Mine Superintendent, George Defond, Safety Engineer, Elvin Lewis, Safety Committeeman, Robert Connor, Engineer Helper, Clarence Morgan, Jigger Boss, Steve Dimas, Slusher Operator, John Valencia, Safety Committeeman, Everett Hahnholt, Miner, and Tom Lucas of the Bureau of Mines out of Denver, Colorado.

James W. Johnston was married, left a wife and two children over 18 years of age. He had worked for the Colorado Fuel & Iron Corporation since April of 1937, having the job of Engineer Underground.

On June 17, 1964, Everett Hahnholt had drilled and shot down this place, which is known as 5110 Haulage, No. 5 & No. 6 Slusher Drift, East No. 5 Finger. On the morning of June 18, 1964, James Johnston, Robert Connor, his helper, and Clarence Morgan, Jigger Boss, went up to check the place to see what had been done. They went in to tell Steve Dimas, Operator, that they were going up. He told them to come back and tell him when they were through, so if he had to shoot the finger, no one would be in danger. Upon the three men going up in the finger, Dimas again began to run the slusher. Morgan and Connor both told Johnston to be careful and not get out too far. Johnston took the head lamp off of his hat to get a better look at the face. He made two steps away from Morgan and Connor and down the finger he went.

Morgan and Connor then went back down to tell Dimas what had happened and recovery work was started. This was approximately 9:15 a.m. Upon recovering the body, artificial respiration was given by Everett Hahnholt. James Johnston suffered severe head injuries and death was reported instantaneous by Dr. J. D. Allison of Wheatland, Wyoming. Approximately twenty minutes elapsed between the time Johnston stepped on the muck pile till his body was recovered.

In discussing this accident, we found no violation of safety rules, only a moment of forgetfulness, which resulted in death. It would appear that Johnston had a momentary mental block. The coroner's verdict was that this was an accidental death.

RECOMMENDATIONS:

1. That every one keep his mind on the job he is doing.
2. That the facts and circumstances surrounding this accident be disseminated to all mining employees.

Jackson R. Forbes
Deputy Inspector of Mines

**SUMMARY OF ACCIDENTS
OTHER THAN COAL**

FATAL:

Colorado Fuel & Iron Corporation	1
Total	1

NONFATAL:

American Colloid Company	2
Atlas Minerals	8
Archer Daniels-Midland Company	2
B. & H. Mines, Incorporated	5
Baroid Division, National Lead Company	8
Benton Clay Company	2
Colorado Fuel & Iron Corporation	20
Continental Uranium Company of Wyoming	4
F. M. C. Corporation	3
Federal Gas Hills Partners	8
Globe Mining Company	1
Great Western Sugar Company	10
Green Mountain Uranium Company	14
Homestake Mining Company	2
Lovell Clay Products Company	4
Magnet Cove Barium Corporation	7
Morrison-Knudsen Company, Inc.	1
Petrotomics Company	2
Plicoflex Incorporated	3
Riverton Concrete Products	1
San Francisco Chemical Company	8
Stauffer Chemical Company	3
Susquehanna-Western, Incorporated	4
Tongue River Stone Company	1
Union Carbide Corporation	8
Utah Mining Company	
Lucky Mc Uranium	9
Shirley Basin Station	4
Western Nuclear, Incorporated	6
Wyo-Ben Products, Incorporated	2
Total	152



First Aid Class held at Jeffrey City, Wyoming
Western Nuclear Company
1964

**NUMBER OF RADON SAMPLES TAKEN AND COUNTED DURING 1964
BY THE STATE INSPECTOR OF MINES DEPARTMENT**

Atlas Minerals	61
B & H Mines	1
Balboa Mining & Developing Company	11
Continental Uranium Company of Wyoming	80
Federal Gas Hills Partners	2
Green Mountain Uranium Corporation	50
Homestake Mining Company	37
Susquehanna-Western, Incorporated	20
Titan Mining Company	5
Union Carbide Corporation	36
Utah Construction & Mining Corporation	
Lucky Mc Uranium Division	8
Shirley Basin	14
Joe Wentz	1
Western Nuclear, Incorporated	4
Total	330

**BALLAST
MORRISON-KNUDSEN COMPANY, INC.**

Name of Mine Granite
 Product Crushed Rock
 Location of Mine Granite, Laramie Co., Wyo.
 Location of Office Granite, Laramie Co., Wyo.
 How Shipped Union Pacific Railroad Co.
 Production Tons 487,905 Tons Ballast;
 38,429 Ton Chips; 6,971 Tons Concrete Rock
 Superintendent Arthur S. Piper
 Number of Men Employed (Average) 41
 Explosives: Kind TNT;
 Ammonia Nitrate; Stick Powder
 Amount 200,000 lbs. TNT;
 9,850 lbs. Stick; 15,300 lbs. Ammonia Nitrate

Improvements for 1964:
 General Repairs.

**BENTONITE
PITS AND PROCESSING PLANT
AMERICAN COLLOID COMPANY**

Name of Mine Upton
 Product Bentonite
 Location of Mine Upton, Wyoming
 Location of Office Skokie, Illinois
 How Shipped Rail & Truck
 Production Tons 100,000
 Superintendent Orville Horn
 Number of Men Employed (Average) 25
 List Improvement for 1964:
 Office Addition.

ARCHER DANIELS MIDLAND COMPANY

Name of Mine Archer Daniels Midland Plant
 Product Bentonite
 Location of Mine Upton, Wyoming
 Location of Office Upton, Wyoming
 How Shipped Via Rail & Truck
 Production Tons 63,461.539
 Superintendent Carl Barritt, Manager
 Number of Men Employed (Average) 16

BAROID DIVISION**NATIONAL LEAD COMPANY**

Name of Mine Clay Spur
 Product Bentonite
 Location of Mine Clay Spur, Near Osage, Wyoming
 Location of Office Clay Spur Near Osage, Wyoming
 How Shipped Railroads & Truck
 Production Tons 45,435
 Superintendent J. H. Loth
 Number of Men Employed (Average) 17

BAROID DIVISION**NATIONAL LEAD COMPANY**

Name of Mine Colony Plant & Mine
 Product Bentonite
 Location of Mine Colony, Wyoming
 Location of Office Colony, Wyoming
 How Shipped Railroad & Truck
 Production Tons 162,115.485 Short Tons
 Superintendent R. Keith Collins
 Number of Men Employed (Average) 44
 List Improvements for 1964:
 Laboratory Building Constructed.

BENTON CLAY COMPANY, INCORPORATED

Name of Mine Benton Clay Company, Inc.
 Product Bentonite & Drilling Mud
 Location of Mine Natrona County
 Location of Office Sheridan, Wyoming
 How Shipped Rail & Truck
 Production Tons 30,308.175
 Superintendent John Armstrong
 Number of Men Employed (Average) 15

BLACK HILLS BENTONITE COMPANY

Name of Mine Black Hills Bentonite Co.
 Product Bentonite
 Location of Mine Moorcroft & Kaycee, Wyoming
 Location of Office Moorcroft, Wyoming
 How Shipped Rail & Truck
 Production Tons 81,213
 General Superintendent A. C. Harding
 Number of Men Employed (Average) 13
 List Improvements for 1964:

Constructed New Plant at Casper, Wyoming.

MAGNET COVE BARIUM CORPORATION

Name of Mine Magnet Cove Barium Corp.
 Product Bentonite
 Location of Mine Greybull, Wyoming
 Location of Office Greybull, Wyoming
 How Shipped Rail & Truck
 Production Tons 285,325.79
 Superintendent Frank Kinckley
 Number of Men Employed (Average) 27

WYO-BEN PRODUCTS, INCORPORATED

Name of Mine Wyo-Ben Products, Incorporated
 Product Bentonite
 Location of Mine Big Horn
 Location of Office Greybull, Wyoming
 How Shipped Trucks
 Production Tons 134,000
 Superintendent Wm. Lynam
 Number of Men Employed (Average) 12
 List Improvements:

1 Dragline - 1 yd. Unit
 1 International Dump Truck - 25 yd.

CEMENT**BIG HORN READI-MIX**

Name of Business Big Horn Readi-Mix
 Product Sand & Gravel, Transit Mixed Concrete
 Location of Operation Greybull & Thermopolis
 Location of Office Greybull, Wyoming
 How Shipped Truck
 Production Tons 6,882
 Superintendent C. R. Walton
 Number of Men Employed (Average) 2
 List Improvements for 1964:

Set up Ready Mix Plant in Thermopolis to better utilize present and future equipment and manpower. Portable washing and screening plant moved back and forth to produce sand and gravel for two communities.

BLACK HILLS READY MIX CONCRETE COMPANY

Name Black Hills Ready Mix Concrete Company
 Product Ready Mix Concrete
 Location of Mine Newcastle, Wyoming
 Location of Office Newcastle, Wyoming
 Number of Men Employed (Average) 2

MONOLITH PORTLAND MIDWEST COMPANY

Name of Mine Monolith Portland Midwest Co.
 Product Cement Rock
 Location of Mine Albany County
 Location of Office Laramie, Wyoming
 How Shipped LV Railroad
 Production Tons 148,361
 Superintendent H. E. Potter
 Number of Men Employed (Average) 15
 Explosives: Kind 40% & 50%
 Amount 41,300 lbs.

NICHOLLS & LEWIS CONCRETE

Name Community Pit
 Product Concrete Aggregate
 Location T 56 N R 94 West 6th Principal Meridian - Sec. 10
 Location of Office Lovell, Wyoming
 How Shipped Trucks
 Production 10,257 Cu. Yds.
 Superintendent R. D. Lewis
 Number of Men Employed (Average) Two at Pit

GRAVEL**BOATRIGHT-SMITH**

Name of Mine Four Various Open Pits
 Product Base Course, Sand, Rock
 Location of Mine Natrona County
 Location of Office Mtn. View
 How Shipped Truck
 Production Tons 122,766
 Superintendent Wesley Greer
 Number of Men Employed (Average) 8

CASPER CONCRETE COMPANY

Name Casper Concrete Company
 Product Gravel
 Location of Mine One Half Mile East of Casper, Wyoming
 Location of Office 1525 East F Street
 How Shipped Trucks
 Production Tons 120,000 Tons
 Superintendent E. Bolton
 Number of Men Employed (Average) 14

SPENCER CALL SAND AND GRAVEL

Name of Mine Spencer Call Sand & Gravel
 Product Sand & Gravel
 Location of Operations 31 Miles North of Afton, Wyoming
 Location of Office Afton, Wyoming
 How Shipped Truck
 Production Tons 8,505
 Superintendent Spencer P. Call
 Number of Men Employed (Average) 2
 Improvements for 1964:

Drive-through loading arrangement made possible by removal of obstructing supports and building of the necessary road.

GILPATRICK CONSTRUCTION COMPANY, INC.

Name of Mine 80 Acres
 Product Sand & Gravel
 Location of Mine East of Riverton, Wyoming
 Location of Office Riverton, Wyoming
 How Shipped Truck
 Production Tons 9,650 T
 Superintendent M. J. Gilpatrick, Jr.
 Number of Men Employed (Average) 1 to 2

HUNTLEY CONSTRUCTION COMPANY

Name Huntley Construction Co.
 Product Sand and Gravel
 Location of Pit West of Green River, Wyoming
 Location of Office Rock Springs, Wyoming
 How Shipped Truck
 Production Tons 19,800
 Superintendent Freeman Huntley
 Number of Men Employed (Average) 3

J & S GRAVEL

Name of Mine J. & S. Gravel & Concrete
 Product Sand, Gravel & Concrete
 Location of Mine Buffalo, Wyoming
 Location of Office Buffalo, Wyoming
 How Shipped Truck
 Production Tons 12, 432 Tons
 Superintendent Hershel B. Smelser
 Number of Men Employed (Average) 1

List Improvements for 1964:

Added New Concrete Batch Plant & Mixer Truck.

LAYOS AND LAYOS

Name of Mine Layos & Layos
 Product Sand & Gravel
 Location 5 Miles West of Green River, Wyo.
 Location of Office 507 Smith St., Rock Springs, Wyo.
 How Shipped Truck
 Production Tons 7,406
 Superintendent Mike Layos, Jr.
 Number of Men Employed (Average) 1

MULLINAX ENGINEERING COMPANY

Name Mullinax Engineering Company
 Product Gravel
 Location Northwest of Sheridan, Wyoming
 Location of Office Fort Road, Northwest of Sheridan, Wyoming
 Production Tons 9,876
 Superintendent Ed Christiansen
 Number of Men Employed (Average) 4

J. D. PELESKY CONSTRUCTION COMPANY

Name Various Pits
 Product Gravel
 Location of Mine Various Locations
 Location of Office Sheridan, Wyoming
 How Shipped Truck
 Production Tons 58,590
 Superintendent J. D. Pelesky
 Number of Men Employed (Average) 4

RASMUSSEN BROS.

Name Permit L 644
 Product Rip-Rap
 Location Big Horn County
 Location of Office 751 South Thurmond, Sheridan, Wyoming
 How Shipped Truck
 Production Tons 230
 Superintendent Willard N. Rasmussen
 Number of Men Employed (Average) 8

REEVES CONCRETE PRODUCTS

Name Reeves Concrete Products
 Product Sand and Rock
 Location of Mine Johnson County
 Location of Office Buffalo, Wyoming
 How Shipped Truck
 Production Tons 26,367
 Superintendent Jack L. Moriarty
 Number of Men Employed (Average) 3

SHERIDAN SAND & GRAVEL - READY MIX, INC.

Name Sheridan Sand & Gravel Morrison Pit
Product Gravel
Location Sheridan, Wyoming
Location of Office Sheridan, Wyoming
How Shipped Truck
Production Tons 18,000
Superintendent K. B. Bell
Number of Men Employed (Average) 6

List Improvements For 1964:

Installed Railroad Cement Handling Facilities.
Built Heavy Equipment Repair Shop.

GYPSUM**BIG HORN GYPSUM COMPANY**

Name of Mine Big Horn Gypsum Company
Product Gypsum
Location of Mine S. W. of Cody
Location of Office N. E. of Cody
How Shipped Truck
Production Tons 105,329
Superintendent Francis Acton
Number of Men Employed (Average) 5
Explosives: Kind Ammonium Nitrate
Amount 17,850 lbs.

WYOMING CONSTRUCTION COMPANY

Name of Mine Red Mountain
Product Gypsum
Location of Mine Near Woods Landing
Location of Office Laramie, Wyoming
How Shipped Truck
Production Tons 10,105
Superintendent Walt Ebsen
Number of Men Employed (Average) 6
Explosives: Kind & Amount Du Pont Fertilizer Hi-Cap (bag)—7,900 lbs.
Red Cross 60% Stick Powder—1,250 lbs.

IRON ORE

THE COLORADO FUEL & IRON CORPORATION

Name of Mine Sunrise
 Product Iron Ore
 Location of Mine Platte County, Wyoming
 Location of Office Sunrise, Wyoming
 How Shipped Railroad
 Production Tons 511,858 gross tons
 Superintendent R. L. Wahl, Jr.
 Number of Men Employed (Average) 148
 Explosives:
 Kind and Amount Hi-Cap 47,150 lbs.
 Gelex 174,900 lbs.
 Nilite 51,200 lbs.

List Improvements For 1964:

Construction beneficiation plant started during year but it is not yet finished.

UNITED STATES STEEL CORPORATION

Name of Mine Atlantic City Ore Operations
 Product Iron Ore
 Location of Mine Lander, Wyoming
 Location of Office .. 30 Miles S.W. of Lander, Wyoming on Highway No. 28
 How Shipped Rail
 Production Tons 1,426,452
 Superintendent S. H. Cohlmeier
 Number of Men Employed (Average) 530
 Explosives:
 Kind Ammonia Nitrate & Slurry Blasting Agents
 Amount 1,345,000 Amm. Nit. & Fuel Oil
 2,894,000 Slurry Blasting Agents

LIMESTONE

THE GREAT WESTERN SUGAR COMPANY

Name of Mine Horse Creek
 Product Limestone
 Location of Mine Horse Creek, Wyoming
 Location of Office Horse Creek, Wyoming
 How Shipped Railroad & Truck
 Production Tons Limestone Tons 151,801; Spalls Tons 48,949
 Superintendent Phillip Ford
 Number of Men Employed (Average) 50
 Explosives: Kind Dynamite & Ammonium Nitrate
 Amount 191,850 lbs.

List Improvements for 1964:

(a) Installed two additional ventilating fans; (b) Constructed new high-tension power line; (c) Upgraded additional haulage rail from 30 to 60 lb.; (d) Extended underground drain another half-mile; (e) Resumed main haulage drifting; (f) Replaced sill haulage motors with new diesel motors.

ROBERTS CONSTRUCTION COMPANY

Name of Mine Roberts Construction Company, Incorporated
 Product Crushed Limestone
 Location of Mine Sundance, Wyoming
 Location of Office Sundance, Wyoming
 How Shipped Truck
 Production Tons 3,260
 Superintendent Alan Roberts
 Number of Men Employed (Average) 5
 Explosives: Kind Ammonium Nitrate
 Amount 5 Ton

UTAH IDAHO SUGAR COMPANY

Name of Mine Fox Creek Quarry
 Product Limestone
 Location of Mine Survey No. 568 Wyoming, Situate in The Unorganized
 Mining District. Teton County, State of Wyoming
 Location of Office U & I Sugar Factory Office
 East Lincoln, Idaho Falls, Idaho
 How Shipped By Rail
 Production Tons 26,001 Ton
 Superintendent George Hales, Jr.
 Number of Men Employed (Average) 12,472
 Explosives: Kind Nitro Carbo Nitrate
 A-Jax 1X
 60 percent Gelatine
 Amount 21,500 lbs.
 850 lbs.
 2,350 lbs. plus 1550 equals
 3,900 lbs.
 Gelatine Powder

WYOMING CONSTRUCTION COMPANY

Name of Mine Limerock Quarry
 Product Limestone
 Location of Mine Near Laramie
 Location of Office Laramie, Wyoming
 How Shipped Truck
 Production Tons 171,500
 Superintendent Walt Ebsen
 Number of Men Employed (Average) 5
 Explosives: Kind DuPont Fertilizer #649 Nitro Carbo Nitrate
 Amount 66,050 lbs. No. 649 Nitro Carbo Nitrate;
 5,900 lbs. Hi-Velocity Stick Powder

MAGNETITE

PLICOFLEX, INCORPORATED

Name of Mine Little Cobar No. 1
 Product Magnetite Ore
 Location of Mine Albany County
 Location of Office P. O. Box 121, Cheyenne, Wyoming
 How Shipped Rail
 Production Tons 236,547.53 Ton
 Superintendent Paul Brenton
 Number of Men Employed (Average) 25
 Explosives: Kind Anfeo P (Nitrate); Red Cross 60%; 1¼ X 8, E Cord
 Amount 161,350 lbs. Anfeo; 10,000 lbs. Red Cross;
 220,000 E Cord

MARBLE

BASINS ENGINEERING COMPANY, INC.

Name of Mine Basins Engineering Co., Inc.
 Product Marble
 Location of Mine 17 Miles West of Wheatland, Wyo.
 Location of Office Wheatland, Wyoming
 How Shipped Not yet in production
 Superintendent Wm. Addison
 Number of Men Employed (Average) 5
 Explosives: Kind ANFO
 Amount 1 Ton

List Improvements for 1964:

Processing Plant Built in Wheatland, Wyoming.

WYOMING MARBLE & DOLOMITE COMPANY

Name Wyoming Marble & Dolomite Co., Incorporated
 Product Crushed Marble Dolomite Stone
 Location of Mine 14 Miles West of Wheatland Wyoming, Platte County
 Location of Office Ernest Lange - Accountant; Law Offices of Wm. R.
 Jones, Professional Building, Wheatland, Wyoming
 How Shipped Truck & Rail
 Production Tons 1,630
 Superintendent W. O. Haven
 Number of Men Employed (Average) 3
 Explosives: Kind Dynamite
 Amount 34 Cases During The Year

PHOSPHATE**SAN FRANCISCO CHEMICAL COMPANY**

Name of Mine Leefe
 Product Phosphate Rock
 Location of Mine Leefe, Wyoming
 Location of Office (Head Office) Montpelier, Idaho
 How Shipped Railroad
 Production Tons 180,154
 Superintendent George H. Martz
 Number of Men Employed (Average) 92
 Explosives: Kind Nitro-Carbo-Nitrate
 Amount 30 Tons

SHALE**IDEALITE COMPANY**

Name of Mine Idealite Company - Quarry
 Product Expanded Shale Aggregate
 Location of Mine 10.5 Miles SE of Laramie, Wyoming
 Location of Office Laramie, Wyoming
 How Shipped Rail & Truck
 Production Tons 45,314 cu. yds.
 Superintendent Andrew Ruskanen
 Number of Men Employed (Average) 18.5

SODIUM SULPHATE**WILLIAM E. PRATT**

Name of Mine William E. Pratt
 Product Sodium Sulphate
 Location of Mine Natrona County
 Location of Office Casper, Wyoming
 How Shipped Railroad
 Production Tons Approximately 1,200
 Superintendent Wm. E. Pratt
 Number of Men Employed (Average) 1

STONE**GUERNSEY STONE COMPANY**

Name of Mine Guernsey Stone Company
 Product Dolomite & Limerock
 Location of Mine 1½ Miles NE of Guernsey, Wyo.
 Location of Office Same location
 How Shipped Railroad & Trucks
 Production Tons 369,208 Tons
 Superintendent Wayne Fox
 Number of Men Employed (Average) 22
 Explosives: Kind Dynamite, TNT & Ammonium Nitrate
 Amount 226,625 lbs. TNT; 23,150 lbs. Dynamite;
 19,920 lbs. Amm. Nit.

TONGUE RIVER STONE COMPANY

Name of Mine Tongue River Stone Company
 Product Railroad Ballast
 Location of Mine Sheridan, Wyoming
 Location of Office Sheridan, Wyoming
 How Shipped Rail
 Production Tons 22,866
 Superintendent Ray Simons
 Number of Men Employed (Average) 2

SULPHUR**CODY SULPHUR PRODUCTS**

Name Cody Sulphur Products
 Product Soil Conditioner
 Location of Operation Park County
 Location of Office Cody, Wyoming
 Production Tons None

TILE & BRICK**THE LOVELL CLAY PRODUCTS COMPANY**

Name of Mine Lovell Shale
 Product Brick & Tile Clay
 Location of Mine 4½ Miles E. of Lovell, Wyo.
 Location of Office Lovell, Wyoming
 How Shipped Truck
 Production Tons 11,269
 Superintendent R. N. Thompson
 Number of Men Employed (Average) 2

TRONA**FMC CORPORATION**

Name of Mine FMC Corporation
 Product Trona, Sultron, Soda Ash, Sodium
 Tripolyphosphate, Sodium Sesquicarbonate
 Location of Mine Westvaco, Wyoming
 Location of Office P. O. Box 872, Green River, Wyo.
 How Shipped Rail & Truck
 Production Tons Trona—1,261 M Tons; Refined Ash Equiv.—701 M Tons
 Resident Manager R. F. Love
 Number of Men Employed (Average) 491 (Avg. July - December)
 Explosives Conventional Dynamite 239,250#;
 Ammonium Nitrate 487,050#

TRONA—FMC Corporation (Continued on next page)

TRONA—FMC Corporation (Continued from preceding page)

List Improvements For 1964:

Mine:

2—2-Wheel Mat'l Trailers	2 New Shuttle Cars
7—Bulk Oil Trailer Tanks	New Skips & Loading Facilities
1—Diesel Material Jeep	1—48' Conveyor, 3000'
5—Blower Fans	1—500 KVA Power Center
2—Powder Jeeps	1—Diesel-Powered Crane
1—Belt Winder	5—Mine Scooters

Plant:

Completed shakedown on new Sesquicarbonate Plant.

Installed new clarifier.

Essentially completed construction on new Hi-Temp. gas-fired unit.

Completed construction of Tripolyphosphate Plant.

Installed additional boiler in power & Steam Plant.

STAUFFER CHEMICAL COMPANY OF WYOMING

Name of Mine Stauffer Big Island Mine
 Product Soda Ash
 Location of Mine 23 Miles NW of Green River, Wyoming
 Location of Office 23 Miles NW of Green River, Wyoming
 How Shipped Rail & Truck
 Production Tons 418,734
 Superintendent H. G. Hedgpeth
 Number of Men Employed (Average) 49
 Explosives: Kind Dynamite & Ammonium Nitrate Blasting Agents
 Amount 319,700 lbs.

URANIUM**ATLAS MINERALS****DIVISION OF ATLAS CORPORATION**

Name of Mine Lisbon
 Product Uranium
 Location of Mine Gas Hills, Wyoming
 Location of Office Salt Lake City, Utah
 How Shipped Truck
 Superintendent L. W. Brady
 Number of Men Employed (Average) 46
 Explosives: Kind Stick Powder
 Amount 8,900 lbs.

Lisbon Shaft ceased operations September 1964.



Head Frame and Construction at the new shaft, Allied Chemical Company located 19 miles West of Green River, Wyoming.

MT. HI. URANIUM & OIL CORPORATION

Name of Mine Del No. 2
 Product Uranium Ore
 Location of Mine Johnson County
 Location of Office 627 C. Y. Avenue, Casper, Wyoming
 Assessment Work was done in 1964.

PETROTOMICS COMPANY

Name of Mine Petrotomics Co. - TGS - 1
 Product Uranium U308
 Location of Mine Shirley Basin
 Location of Office Shirley Basin
 How Shipped In 55 Gal. Drums, by Truck
 Production Tons 327.32 Tons
 Superintendent George T. Beardshear
 Number of Men Employed (Average) 65
 Explosives: Kind Gelex #2, 1¼ X 8, 40 per cent
 Amount 3,000 lbs.

MALCOLM J. REEVES URANIUM PIT

Name Jeanette & Innes
 Product Uranium Ore
 Location Campbell County
 Location of Office Casper, Wyoming
 How Shipped Truck & Rail
 Production Tons 97 Tons
 Chief Shovel Operator M. J. Reeves
 Number of Men Employed (Average) 1

SIGMA MINING COMPANY

Name of Mine Various Poison Basin & Hatt Claims
 Product Uranium Ore
 Location of Mine 8 Miles West of Baggs, Wyoming
 Location of Office Grand Junction, Colorado
 How Shipped Truck
 Production Tons 9,511.65
 Superintendent Darrell Maluy & David Sigismund
 Number of Men Employed (Average) Approximately 9
 (Contractor Employees)
 Explosives: Kind ANFO
 Amount 4.5 Tons

SIMONS BROTHERS

Name 6R Mine
 Product Uranium
 Location of Mine Crooks Gap, Wyoming
 Location of Office 37 Valley Drive, Casper, Wyoming
 How Shipped Truck
 Superintendent E. V. Simons
 Number of Men Employed (Average) 2

SUSQUEHANNA-WESTERN, INCORPORATED

Name of Mine	Arrowhead
Product	Uranium
Location of Mine	Fremont County
Location of Office	Riverton, Wyoming
How Shipped	Truck
Production Tons	20,925
Superintendent	E. W. Davis
Number of Men Employed (Average)	10
Explosives: Kind	Ammonium Nitrate
Amount	13,000 lbs.

Mine was shut down in September, 1964.

TITAN MINING COMPANY

Name of Mine	Tri Pacer No. 4
Product	Uranium
Location of Mine	Big Horn County
Location of Office	Burlington, Wyoming
How Shipped	Truck
Production Tons	322,164
Number of Men Employed (Average)	4
Explosives: Kind	Mine Special 45%

UNION CARBIDE CORPORATION

Name of Mill	Union Carbide Corporation Mining & Metals Division
Product	Uranium Ore
Location of Mill	Gas Hills, Natrona County, Wyo.
Location of Office	Gas Hills, Natrona County, Wyo.
How Shipped	Truck
Superintendent	E. C. Gibbs
Number of Men Employed (Average)	26

UNION CARBIDE CORPORATION

Name of Mine	East Gas Hills Operation
Product	Uranium Ore
Location of Mine	Gas Hills, Natrona County, Wyo.
Location of Office	Gas Hills, Natrona County, Wyo.
Superintendent	I. R. Taylor
Number of Men Employed (Average)	8 (2 Months)*

*Operated only two months removing waste.

UNION CARBIDE CORPORATION

Name of Mine Rox
 Product Uranium Ore
 Location of Mine Gas Hills, Fremont County
 Location of Office Gas Hills, Natrona County
 How Shipped Truck & Scraper
 Production Tons 1,200
 Superintendent I. R. Taylor
 Number of Men Employed (Average) 16
 Explosives: Kind Dynamite
 Amount 9,000 lbs.

List Improvements for 1964:

- Drilled 48" circular hoisting shaft.
- Drilled 2-22" ventilation and emergency escapeway holes.
- Erected head frame and ore bins.
- Erected hoist building, warehouse-shop building, and dryroom-office building.

UNION CARBIDE CORPORATION

Name of Mine Thunderbird
 Product Uranium Ore
 Location of Mine Gas Hills, Fremont County, Wyo.
 Location of Office Gas Hills, Natrona County, Wyo.
 How Shipped Truck & Scraper
 Production Tons 17,000
 Superintendent I. R. Taylor
 Number of Men Employed (Average) 75
 Explosives: Kind Dynamite
 Amount 21,000 lbs.

List Improvements For 1964:

- Installed Emergency Power Plant.
- Enclosed the Head Frame and Ore Bins.

UNION CARBIDE CORPORATION

Name of Mine West Gas Hills Operation
 Product Uranium Ore
 Location of Mine Gas Hills, Fremont County, Wyo.
 Location of Office Gas Hills, Natrona County, Wyo.
 How Shipped Truck
 Production Tons 96,000
 Superintendent I. R. Taylor
 Number of Men Employed (Average) 7 (Operated 10 Months)

UTAH CONSTRUCTION & MINING COMPANY

Name of Mine Lucky Mc Mine
 Product Uranium Ore
 Location of Mine Gas Hills, Fremont County
 Location of Office Riverton, Wyoming
 How Shipped Truck & Rail
 Production Tons 149,156
 Superintendent J. T. Atkins
 Number of Men Employed (Average) 148
 Explosives: Kind 40% Gelatin Atlas #3
 Amount 8,100 lbs.

UTAH CONSTRUCTION & MINING COMPANY

Name of Mine Shirley Basin Mine
 Product Uranium
 Location of Mine Carbon County
 Location of Office Shirley Basin, Wyoming
 How Shipped Truck
 Production Tons 11,980
 Superintendent J. H. Bailey
 Number of Men Employed (Average) 35

JIM WADE

Name of Mine Blarco
 Product Uranium
 Location of Mine Gas Hills, Fremont County, Wyoming
 Location of Office 505 South 7th, Lander, Wyoming
 How Shipped Truck
 Superintendent Jim Wade
 Number of Men Employed (Average) 3

List of Improvements for 1964:

Extensive and concentrated drill out program—probable activation of other properties.

WESTERN NUCLEAR, INC.

Name of Mine Day-Loma Pits
 Product Uranium Ore
 Location of Mine Sec. 24, T 32 N, R91 W, Gas Hills
 Location of Office Jeffrey City, Wyoming
 How Shipped Truck
 Production Tons 135,281
 Superintendent Muril Vincelette
 Number of Men Employed (Average) 53
 Explosives: Kind DuPont Gelex & Hi-Cap
 Amount 6,400 lbs.

WESTERN NUCLEAR, INC.

Name of Mine Day Underground
Product Uranium Ore
Location of Mine Sec. 24, T 32 N, R 91 W, Gas Hills
Location of Office Jeffrey City, Wyoming
How Shipped Truck
Production Tons 169
Superintendent Muril Vincelette
Number of Men Employed (Average) 3 plus
Explosives: Kind DuPont Gelex
Amount 1,150 lbs.

VERMICULITE**GOLDEN CLOVER CORPORATION**

Name of Mine Platt Mine
Product Vermiculite
Location of Mine Platt Ranch
Location of Office Encampment, Wyoming
No Production

54 SUMMARY OF OTHER THAN COAL MINES MANHOURS, FREQUENCY AND SEVERITY RATES

NAME OF OPERATOR OR COMPANY	MAN HOURS		FREQUENCY		SEVERITY		UNDERGROUND		SURFACE		Average Number of Employees Excluding Of. Work, Of. Work.	Total Number of Employees Including Of. Work.
	Underground	Surface	Underground	Surface	Underground	Surface	Fatal	Non-Fatal	Fatal	Non-Fatal		
URANIUM: (Continued)												
Federal Gas Hills Partners												
Open Pit Stripping												
Surface Shop and Yards												
Mill												
Auxiliary Works, Office												
Underground	4,416.00											
Green Mountain Uranium Corporation												
Underground	92,899.00		129.00		1,270.00			12				
Surface Shop and Yards		22,683.00		88.00						2		
Office		10,720.00										
Homeslake Mining Company												
Underground	81,737.00		24.00		1,871.00			2				
Surface Shop and Yards		1,686.00										
Dale B. Levi												
Exploration, Shop and Yards		2,573.00										
Mt. Hi Uranium and Oil Company												
Underground	240.00											
Vernon A. Meak Mining Company												
Open Pit Stripping		73,520.00										
Petrotonics Company												
Open Pit Stripping		40,640.00										
Surface; Mill, Shop and Yards		245,168.00		8.00						2		
Malcolm J. Reeves												
Surface Shop & Yards (Imes)		100.00										
Surface Shop & Yards (Jeanette)		350.00										
Sigma Mining Company												
Open Pit Stripping		8,000.00										
Simons Brothers												
Stripping		3,000.00										
Susquehanna-Western, Inc.												
Underground	15,852.00		126.00		7,443.00			2				

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
January 1964 8	R. L. Stephenson		Chemical burns or allergy.	Chemical burns or allergy.	Utah Construction & Mining Co., Lucky Mc Mine
9	Glen E. Thayer	Miner	He was looking up to watch work while drilling the roof. Workman was moving Air-Trac Drill, towing compressor down grade, slippery road caused Air-Trac Drill to jackknife catching his leg between the two machines.	Kink in neck. Leg broken below knee, both bones, right leg.	Susquehanna-Western, Inc. Riverton, Wyoming
15	Edward Dowd	Driller	Pallet board fell, hitting workman's right knee.	Strained & pulled ligaments of right knee.	Western Nuclear, Inc. Day D-1 Pit Jeffrey City, Wyoming
15	Leland Asay	Off Bearer	Employee bumped his elbow on crusher belt.	Bruised elbow.	Lovell Clay Products Co. Lovell, Wyoming
17	Mark V. Murphy		Slipped on ice in 45 MPH wind.	Fractured ankle.	Plicoflex Incorporated Iron Mountain, Wyoming
17	Darrell Wulff	Warehouse Workman	Employee was helping tip over a drum.	Twisted back.	Globe Mining Company Riverton, Wyoming
17	Elmer Adams	Leach Operator	Dowis was helping during timbering operations, rupture appeared.	Right inguinal hernia.	Federal-Gas Hills Partners Riverton, Wyoming
22	John E. Dowis	Engineer			Green Mt. Uranium Corp. Lander, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
January 1964 27	D. R. Bertie	Chute Puller	Piece of falling rock hit workman on mouth.	Cut and bruised mouth, broken tooth, to be removed, possibly two more chipped teeth.	Great Western Sugar Co. Horse Creek, Wyoming
27	Joe E. Norman		Employee was throwing sacks in box car.	Twisted his back.	Magnet Cove Barium Corp. Greybull, Wyoming
27	R. D. Brewer	Car Spotter	Workman caught his hand between belt and pulley.	Broken little finger, right hand.	Great Western Sugar Co. Horse Creek, Wyoming
29	C. J. Snyder	Chute Puller	Partner using bar to pry chute tin caught workman's fingernail, pulling it off.	Lost his little fingernail.	Great Western Sugar Co. Horse Creek, Wyoming
29	James R. Bristow	Maintenance	Employee dropped pry bar on his right foot.	Injured big toe of right foot.	Magnet Cove Barium Corp. Greybull, Wyoming
30	Raymond Duran	Helper	Workman caught his hand between drum and cable.	Laceration, right hand.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
February 1964 3	James M. Brownell		Employee strained himself while lifting on large rock.	Hernia, left side.	Great Western Sugar Co. Horse Creek, Wyoming
5	Travis L. Lacy	Miner	Workman tripped, falling on rocks.	Injuries to neck and head.	Susquehanna-Western, Inc. Riverton, Wyoming
6	Clarence Nordeen	Timberman	Workman tripped on his shoelaces falling to ground.	Severe sprain of left wrist.	Colorado Fuel & Iron Corp. Sunrise, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
February 1964 6	H. Wehrung		Employee slipped on ice on grating.	Sprained right ankle.	Petrotomics Company Shirley Basin, Wyoming
19	Fritz Leachman	Miner	Employee fell against rock striking his right arm.	Pain, moderate degree, right arm.	B & H Mines, Inc. Douglas, Wyoming
20	Wayne R. Paris	Packer Operator	While loading bentonite into truck employee slipped.	Contusion to leg.	Magnet Cove Barium Corp. Greybull, Wyoming
20	Victor E. Graham	Pipe Finisher	Workman spilled butane over his hands.	Extensive burns over backs of both hands.	Lovell Clay Products Co. Lovell, Wyoming
21	George Locke		Employee was handling bags.	Sprained his back.	American Colloid Co. Upton, Wyoming
23	George Green	Maintenance	Green was lifting a steam radiator by himself.	Upper back sprained.	Western Nuclear, Inc., Shop Jeffrey City, Wyoming
24	Otto Engebretson	Bag Handler	Workman accidentally got his finger between pulley & belt.	Third finger, left hand cut off at first joint.	Baroid Division, National Lead Company Colony, Wyoming
25	Henry I. Laird	Mining Shop	Employee leaned over to light stove & felt pain in his back.	Injury to his back.	B & H Mines, Inc. Douglas, Wyoming.
27	Glen A. Freeman	Master Mechanic	Workman's hand went between V-Belts & Drive Pulley when motor was started by mistake.	Right thumb cut in two places & broken; stitches were required.	San Francisco Chemical Co. Leefer, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
February 1964 28	Raymond Wilkerson		Employee slipped on scraper hitting his back on diesel tank.	Injury to lower back, extent unknown.	Western Nuclear, Inc., Day 1 Pit Jeffrey City, Wyoming
March 1964 2	William Domson, Sr.	Mine Department	Falling iron caught employee's legs against loading machine.	Compound fracture of right leg.	FMC Corporation Westvaco Mine
2	Byron Leach		Employee jumped from euclid.	Back injury.	Plicoflex Incorporated Iron Mountain, Wyo.
4	Jolan Chavez	Contract Miner	Chunk fell hitting workman on shoulder & chest.	Crushing injury to chest & shoulder, fractured rib.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
9	James T. Brooks, Jr.	Miner	Rock struck Brooks on left hand.	Left wrist bruised & swollen.	Green Mt. Uranium Corp. Lander, Wyoming
10	Christian Hippe	Crusher Operator	Ore came loose, causing workman to loose his balance.	Back strain.	Federal Gas Hills Partners Gas Hills, Wyoming
10	Jose Ibarra	Chute Puller	Chunk fell on employee's shoulder & neck.	Strain, right shoulder & neck.	Colo. Fuel & Iron Corp. Sunrise, Wyoming
11	Dean W. Wolvington	Driller Helper	While driving nails workman sprained his right wrist.	Right wrist, chronic sprain.	Baroid Division National Lead Co. Colony, Wyoming
11	John Newton Vick	Bagging Department	Workman felt his back hurt as he was letting down 100 lb. bag.	Slightly injured back.	Benton Clay Company Casper, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

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DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
March 1964 13	Garland Foster		A pallet fell.	Bruised knee.	American Colloid Company Upton, Wyoming
14	Raymond Wilkerson		He was helping change angle of dozer blade on a patrol stuck in the snow.	Injured his back.	Western Nuclear, Inc. Jeffrey City, Wyoming
20	D. P. Brownell	Chute Puller	Employee was barring on rock, wrenched his back.	Sprained sacro lumbar.	Great Western Sugar Co. Horse Creek, Wyoming
28	Jim Maddox		Workman was lifting.	Sprained his back.	Atlas Minerals Gas Hills, Wyoming
31	Ed Harnice	Surface	Pipe fell penetrating the muscle.	Puncture wound and severe contusion of right leg.	FMC Corporation Westvaco Mine
April 1964 1	Melvin Falk		Workman fell down raise.		Atlas Minerals Gas Hills, Wyoming
1	John P. Campbell		Employee fell down raise.		Atlas Minerals Gas Hills, Wyoming
8	Edward C. Henwood		Workman slipped on wet bentonite.	Sprained ankle.	Archer-Daniels-Midland Co. Colony, Wyoming
8	Jalmer Balstad	Miner	Drill fell out of hole & struck workman's left thumb.	Fracture, proximal phalanx thumb of left hand.	Green Mt. Uranium Corp. Lander, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
April 1964 13	Sam Mammalis	Mine Operator	Workman was plugging two nips & explosion occurred. A rock fell from above while he was loading powder into holes prior to blasting.	Burned legs above ankles & eyes.	Strauffer Chemical Co. of Wyo. Green River, Wyoming
22	Fritz Schluening				Homestake Mining Company Hauber, Mine
May 1964 6	Joe Franciscato	Contract Miner	Workman was lifting timber cap into place on boom.	Workman complained of a kink in his neck.	Colo. Fuel & Iron Corp. Sunrise, Wyoming
9	Thomas D. Martin	Swamper	Exhaust pipe came loose striking Martin across bridge of his nose.	Fracture & laceration of nose.	Green Mt. Uranium Corp. Lander, Wyoming
11	Dee Bachelder		Workman was hit with slab.		Atlas Minerals Gas Hills, Wyoming
12	Charles Guthrie		Jackhammer bounced on top of workman's toe.	Fracture of big toe, left foot.	Western Nuclear, Inc. Jeffrey City, Wyoming
18	George R. Trudo		Workman slipped falling out of box car doorway, land- ing astride ramp edge.		Baroid Division, National Lead Company Colony, Wyoming
19	David V. Palmer		Employee was backing up with loader when it went over the bank.		B & H Mines Douglas, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

63

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
May 1964 19	Lee Bear		Workman kicked kink in cable.	Broken bone in foot.	Baroid Division National Lead Company Osage, Wyoming
23	Lance Ginderson		Wire punctured workman's arm.	Puncture wound, right forearm.	Riverton Concrete Prod. Inc. Riverton, Wyoming
28	Harold Mauch	Carpenter	Scaffolding plank broke & he fell approximately 18 feet.	Head injury & dislocated finger.	Federal Gas Hills Partners Gas Hills, Wyoming
June 1964 1	George R. Trudo	Bag Handler	Accidentally, workman stuck his finger between pulley & belt conveyor.	Ring finger on left hand cut and bruised.	Baroid Division National Lead Company Colony, Wyoming
1	Nora Knotwell	Cook	She was kneeling on left knee attempting to move a table.	Fractured arthritic spicula of left patella.	Federal Gas Hills Partners Gas Hills, Wyoming
2	C. J. Crippen		Workman lost his footing.	Sprained his back.	Utah Construction & Mining Co. Lucky Mc Mine
8	Earl Pugmire		Ladder broke & workman fell to the floor.	Injured his shoulder & neck & cracked two vertebra.	San Francisco Chemical Co. Leele, Wyoming
12	J. E. Stephenson			Chemical Dermatitis.	Utah Construction & Mining Co. Lucky Mc Mine
12	Nathen Tyler		Workman was hit by slab.		Atlas Minerals Gas Hills, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
June 1964 18	Dennis Pugmire		Workman stepped in a hole.	Sprained his ankle.	San Francisco Chemical Co. Leeffe, Wyoming
20	L. L. Brady		Tick Bite.		Utah Construction & Mining Co. Lucky Mc Mine
21	Wesley V. Patton	Miner	Workman slipped, spraining his back.	Tenderness & spasm in lumbar back, possible slipped disc.	Green Mt. Uranium Corp. Lander, Wyoming
23	Richard C. Muth		While wheeling bags cart over-balanced & fell on employee.	Twisted left leg.	Baroid Division National Lead Company
25	D. L. Wilson	Electrician	Employee slid down light pole to keep from falling when hook broke out of pole.	Abrasions to chest, stomach, & arms with several large slivers.	Great Western Sugar Co. Horse Creek, Wyoming
25	K. R. Butters	Plant Laborer	Workman's hand was caught in belt conveyor.	Abrasions, little finger; fin-ger nail torn off completely.	Great Western Sugar Co. Horse Creek, Wyoming
26	Steve R. Smith	Split Rock Mill	Workman slipped & strained his groin.	Soreness & burning, rt. groin, possible hernia.	Western Nuclear, Inc. Jeffrey City, Wyoming
July 1964 6	Lawrence C. Kennedy	Mill Laborer	Cement burns due to finishing cement.	Cement burns on both knees.	Utah Mining Company Lucky Mc Mine
7	William Ainslie		Employee was pulling chute & was hit by muck car.		Atlas Minerals Gas Hills, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

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DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
July 1964 9	Ronald Fink	Clay Worker	Workman hurt his back while lifting pipe.	Strained middle back.	Lovell Clay Products Co. Lovell, Wyoming
10	Leroy C. Humiston	Maintenance Mechanic	Workman dropped a box of pipe on left leg just above heel.	Severely bruised left heel.	Utah Construction & Mining Co. Lucky Mc Mine
11	Joe E. Norman		Workman was getting off packing machine.	Twisted his knee.	Magnet Cove Barium Corp. Greybull, Wyoming
15	Anthony Genoff	Operator	Dirt fell down from top of cab of scraper.	Foreign object embedded in right eye.	Federal Gas Hills Partners Gas Hills, Wyoming
15	Robert L. Heinrich	Engineer's Helper	Scraper hit hole causing him to sprain his back.	Sprain of thoracic spine with traumatic myositis.	Utah Construction & Mining Co. Lucky Mc Mine
20	Wm. V. Givens, Jr.		Workman stepped on boulder as he dismounted tractor.	Strained tendons & chipped bone in left foot.	San Francisco Chemical Co. Leeffe, Wyoming
20	Thomas Withrow		Workman was hit by a slab.		Atlas Minerals Gas Hills, Wyoming
21	Leonard H. Larson	Welder	Workman fell, hurting his left elbow.	Contusions & sprain of left elbow.	Utah Construction & Mining Co. Lucky Mc Mine
21	Reginald Carpenter	Clay Worker	Employee caught fingers of r. hand on loading mechanism.	Lacerated fingers with possible loss of two joints of r. index finger.	Lovell Clay Products Co. Lovell, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
July 1964 22	Joe Hohnbolt	Timber Helper	Workman slipped & pushed his foot against the other timber.	Contusion, left foot.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
23	Travis L. Lacy		Employee got caught between bucket & truck bed.		Susquehanna Western, Inc. Arrowhead Mine
24	Lee R. Starr		Workman jumped out of euclid & fell on his head & shoulder.	Injured shoulder and head.	Tongue River Stone Co. Sheridan, Wyoming
24	Levi Vigil	Motorman	Employee was lifting jack back.	Hurt his back.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
25 th	Henry C. Bishop		Workman fell at the mine.	Severe contusion, left knee.	Plicoflex Incorporated Iron Mountain, Wyoming
27	C. C. Preston	Motorman	Workman bumped his head on the chute.	Sore & bruised vertebrae in neck.	Great Western Sugar Co. Horse Creek, Wyoming
30	W. E. Yoki		Employee was lifting timber truck back on to track.	Strained his back.	Continental Uranium Co. of Jeffrey City, Wyoming
31	Ralph V. Clarke	Swamper	Workman was carrying roof jacks under a low brow.	Strained lower back.	Green Mt. Uranium Corp. Lander, Wyoming
August 1964 3	Charles F. Neisess	Oiler	Iron snapped back, hitting him in middle of forehead.	No fracture, but headaches.	Morrison-Knudsen Co., Inc. Cheyenne, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
August 1964 5	Lee Blakesly		Wrench slipped and hit his glasses.	Glass in workman's eyes.	Wyo-Ben Products Co. Greybull, Wyoming
6	Bruce Corn		Crank on motor kicked, hitting workman on right upper arm.	Contusion of deltoid & insertion.	B & H Mines, Inc. Douglas, Wyoming
13	Richard E. Nimmo	Miner	Right thumb was pierced with strand of wire.	Puncture wound through distal palmar surface, rt.	Green Mt. Uranium Corp. Lander, Wyoming
13	Dennis C. Shalhoob	Bag Handler	Workman twisted his back.	Slipped disc in lower back.	Baroid Division National Lead Company Colony, Wyoming
14	Louis Dale Palmer	Mill Maintenance	Employee jumped bumping against water mixer in mill.	Injury to scrotum.	Federal Gas Hills Partners Gas Hills, Wyoming
17	R. D. Tisdale	Truck Driver	Steering wheel spun back catching workman's arm.	Injured arm.	Magnet Cove Barium Corp. Greybull, Wyoming
19	Marlin C. Dalton	Miner	De-railed car struck workman's right leg.	Abrasions, right leg, myositis.	Green Mt. Uranium Corp. Lander, Wyoming
20	Serafin da Silva	Oiler	Workman fainted on job, bumped his head on cement floor.	Back of head bruised & sore.	Great Western Sugar Co. Horse Creek, Wyoming
20	W. E. Yoki		Workman slipped on rock while taking down a slusher block.	Twisted his knee.	Continental Uranium Corp. Jeffrey City, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
August 1964 20	K. P. Mahn	Chute Puller	Rock struck bar, causing it to strike workman's chin.	Chipped three teeth & two stitches in chin.	Great Western Sugar Co. Horse Creek, Wyoming
September 1964 2	Claris W. Warner	Miner	Chunk fell on workman's foot.	Severe pain, left foot.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
5	Charles F. Kennedy		Employee slipped as he was descending stairs.	Sprained & smashed cords in back of left hand.	San Francisco Chemical Co. Leefer, Wyoming
5	Robert Nelson	Miner	Workman was moving a slab of ore.	Strain.	Union Carbide Corp. Gas Hills, Wyoming
9	Claris W. Warner	Miner	Chunk pinched his hand against machine.	Laceration, second finger, left hand.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
11	Gilbert A. Dobbs	Drilling, Slushing and Roof Bolting	Staging fell.	Lacerated left knee.	Continental Uranium Co. Jeffrey City, Wyoming
15	Earl Thomson		Workman was lifting.	Hurt his back.	Atlas Minerals Gas Hills, Wyoming
17	Bruce S. Corn		Pulley chain broke, pulling broken link through his left hand.	Injured left hand.	B & H Mines Douglas, Wyoming
21	Herbert G. Michel	Packer Operator	Jack Hammer hit concrete causing a small piece of it to strike workman's rt. eye.	Laceration, right eye.	Baroid Division National Lead Company Colony, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

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DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
September 1964 22	Raymond M. Barp	Laborer	Employee hit his back on a protruding bolt.	Severe contusion of the sacroiliac & lower muscle.	San Francisco Chemical Co. Leefe, Wyoming
24	Julius Fredericks	Miner	Workman fell.	Injured his hip.	Union Carbide Corp. Gas Hills, Wyoming
25	Robert Fowlkes		Workman lost his footing.		Homestake Mining Co. Hauber Mine
October 1964 1	Gene Oakes	Miner	Employee was struck by slab.	Injured his shoulder & fractured a rib.	Union Carbide Corp. Gas Hills, Wyoming
8	Earl E. Carroll	Class B Operator	Employee strained his back.	Sacroiliac strain.	Utah Mining Company Lucky Mc Uranium Mine
9	Orville R. Nimmo, Jr.	Mechanic	Workman stepped from bulldozer & injured his ankle.	Sprain, left foot.	Green Mt. Uranium Corp. Lander, Wyoming
12	Richard V. Roat	Slushing, Mucking and Drilling	While working, he felt sharp pain in the middle of his back.	Injured middle of lowerback.	Continental Uranium Co. of Wyoming Jeffrey City, Wyoming
14	Stanley Palmer	Shop Maintenance	Workman stepped crooked on his leg.	Torn cartilage, left knee.	Western Nuclear, Inc. Jeffrey City, Wyoming
27	Charles D. Bray	Long Hole Driller	Workman slipped, twisting his back & hip.	Ruptured disc L5 & S1 interspace.	Green Mt. Uranium Corp. Lander, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
October 1964 28	Dale Maddalone		Workman was struck by slab.	Injured leg & ankle.	Union Carbide Corp. Gas Hills, Wyoming
31	Wesley V. Patton	Uranium Mining	Falling slab struck workman on knee.	Fracture right third lumbar transverse.	Green Mt. Uranium Corp. Lander, Wyoming
November 1964 2	Albert V. Martinez	Contract Miner	Strained his back.	Slipped disc.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
9	Allan R. Andersen	Crusher Helper	Workman wrenched his back while getting out of his car.	Wrenched lower back.	San Francisco Chemical Co. Leefe, Wyoming
9	W. McKenzie		Workman was unloading ore.	Pulled muscle in his back.	Petrotomics Company Shirley Basin, Wyoming
11	Chester Shinabarger	Leadman	Workman fell six feet into slucher scam.	Twisted his knee.	Union Carbide Corp. Gas Hills, Wyoming
12	Jesus Casillas	Chute Tapper	Chunk sluffed out & hit him on the left knee.	Contusion, left knee.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
18	Robert A. Mayo	Plant Operator	Workman caught his finger between barrel & mixing tank.	Middle finger, rt. hand almost cut off, first joint.	Utah Construction & Min. Co Shirley Basin, Wyoming
23	Maurice Ashley		Wrench slipped, his left hand struck cement floor.	Contusions, severe, left hand.	Archer-Daniels-Midland Co. Colony, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
November 1964 24	Travis L. Lacy	Mechanic	Employee was cleaning chutes in crusher plant.	Foreign body in right eye.	Susquehanna Western, Inc. Riverton, Wyoming
25	Hilario Zamora	Contract Miner	Chunk fell catching his hand between it & the timber.	Fracture 5th finger, abrasion 4th finger, right hand.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
29	Clyde B. Farnes	Plant Operator	He slipped on ice while checking & cleaning sump pump.	Injured lower back.	Utah Const. & Mining Co. Shirley Basin, Wyoming
29	Jake Neumiller	Packer Operator	Workman missed step in stairway.	Bruised shin bone.	Utah Const. & Mining Co. Shirley Basin, Wyoming
30	Joe F. Nesbitt	Packer Operator	Workman slipped on ice & snow.	Injured his back.	Magnet Cove Barium Corp. Greybull, Wyoming
December 1964 2	Earnest Martin	Truck Driver	Employee reached for post & ran sliver into his finger.	Infected 3rd digit, right hand.	Magnet Cove Barium Corp. Greybull, Wyoming
2	Donald B. Scott		Workman slipped on wet bentonite and fell.		Benton Clay Company Sheridan, Wyoming
3	Earl W. Oaks	Timber Helper	Grizzly hook slipped causing him to twist his back.	Sacro Lumbo Strain.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
4	Henry M. Van Dusen	Swamper	Ore car rolled over his left instep.	Contusion of left foot.	Green Mt. Uranium Corp. Lander, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
December 1964 4	Jose Ibarra	Contract Miner	While picking workman strained his back.	Back strain.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
5	David J. Bottrell	Swamper	Workman felt twisting his right foot and ankle.	Sprain of right ankle.	Green Mt. Uranium Corp. Lander, Wyoming
6	Elmer Adams	Mill Operator	Workman slipped from scarfolding.	Herniated lumbar disc.	Federal Gas Hills Partners Gas Hills, Wyoming
7	Edwin Dunn, Jr.	Mine Maintenance	Workman caught his glove in hoist hook.	Amputation of left middle finger above nail & tip of left index finger.	FMC Corporation Westvaco Mine
8	Jerry Mooney		Workman caught his glove in power saw.	Cut finger.	Union Carbide Corp. Gas Hills, Wyoming
8	Pedro Sanchez	Chute Tapper	Chunk fell hitting workman on his left foot.	Contusion, left foot.	Thunderbird Colorado Fuel & Iron Corp. Sunrise, Wyoming
9	Weston Cheney	Mining & Milling	Workman slipped on ice as he was coming down hill from the mill.		San Francisco Chemical Co. Leefe, Wyoming
13	Jake Neumiller	Operator	Workman bumped into a 2 x 4.	Contusion, abrasion left mid-anterior leg with secondary cellulitis.	Utah Const. & Mining Co. Shirley Basin, Wyoming
13	Derald D. Kinderknecht	Miner	Muck slipped down; his leg went through the rails.	Unknown	Green Mt. Uranium Corp. Lander, Wyoming

NON-FATAL ACCIDENTS FOR 1964 - OTHER THAN COAL

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DATE	NAME	OCCUPATION	CAUSE OF ACCIDENT	NATURE OF INJURY	COMPANY AND MINE
December 1964 14	Matthew Farrelly		Timber fell on workman. Workman hit his head on No. 4 Ramp while riding motor.	Bruised kidney.	Union Carbide Corp. Thunderbird Gas Hills, Wyoming
15	Reuben Anderson	Brakeman	Workman slipped on ice.	Stiff neck.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
15	George Barnhart	Brakeman	Workman was lifting timber.	Bruised knee.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
16	Steve Dimas	Contract Miner	Chunk fell hitting him on the arm.	Strained his back.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
21	Wayne King	Contract Miner	Workman slipped.	Fracture, left forearm.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
23	Roman Duran	Contract Miner	Employee was working with spader.	Sprained left wrist.	Colorado Fuel & Iron Corp. Sunrise, Wyoming
23	L. W. Lynn		Barrel slipped and caught his finger.	Hernia - Stomach.	Union Carbide Corp. Gas Hills, Wyoming
29	Tom Hewitt		Employee was helping place rails and pans in position.	Crushing injury & fracture of end of rt. fourth finger.	Federal Gas Hills Partners Gas Hills, Wyoming
30	Raymond Cuthbertson		Hyster rolled down a ramp pinning workman between a pallet and the bags.	Hernia.	Stauffer Chemical Co. Big Island Mine
31	Henry C. Simkins			One broken ankle & severe bruise on the other ankle.	Stauffer Chemical Co. Big Island Mine

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