

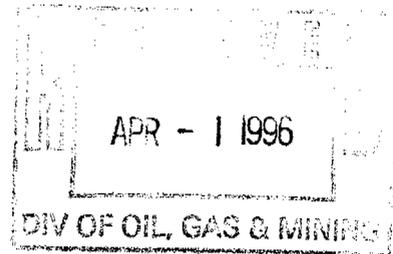


Coastal
The Energy People

KENNETH L. MAY
GENERAL MANAGER
SOUTHERN UTAH FUEL COMPANY

March 20, 1996

Mr. James W. Carter
Utah Coal Regulatory Program
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, UT 84180-1203



Re: Annual Report for Southern Utah Fuel Company Coal Mine

Dear Mr. Carter:

Attached herewith is a copy of the annual report for the Southern Utah Fuel Company coal mine for 1995. The information included is thought to be complete as requested. Questions should be referred to Barry Barnum at (801) 636-2669.

Sincerely,
SOUTHERN UTAH FUEL COMPANY

Kenneth E. May
Vice President and General Manager

Enclosures

KEM/WKS:kb

f:\work\govt1996\dogmcorr\annual95.rpt

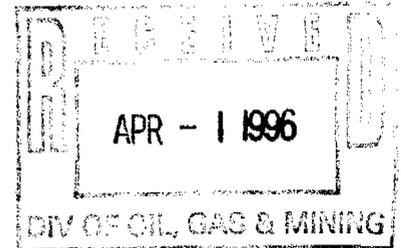
Southern Utah Fuel Company

A SUBSIDIARY OF THE COASTAL CORPORATION
397 SOUTH 800 WEST • SALINA UT 84654 • 801/637-4880 • FAX 801/534-3296

COAL MINING AND RECLAMATION OPERATIONS FOR 1995

(Must be submitted to the Division by April 2, 1996)

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, Utah 84180-1203
(801)538-5340



Permittee: Coastal States Energy Company

Mine Name: SUFCO Mine

Mailing Address: 397 South 800 West, Salina, Utah 84654

Company Representative: Wesley K. Sorensen

Resident Agent: Kenneth E. May

Permit Number: ACT/041/007

MSHA ID Number 42-00089

Date of Initial Permanent Program Permit: May 19, 1987

Date of Permit Renewal: May 1992

Quantity of Coal Mined (tonnage) 1995: 3,905,748

A. General

1. No anomalies, missing data or monitoring changes were known to occur during 1995.
2. Corrective actions were taken to clean up non-coal waste as required by N95-46-4-1.

B. Water Monitoring Data:

1. Mine Discharge data is included in the data base.
 - a. The mine water discharged is summarized as required in Table B-1.
 - b. A five year flow history is shown in graphical form for PT003 the main discharge point in Graph B-1.
 - c. No trends are evident in the data. The temporary decrease in flow, shown in Graph B-1 in late 1994 and early 1995, is attributable to shutting in water in the 3 West area of the mine.
2. Spring flow data is included in the data base.
3. Surface Water flow data is included in the data base.

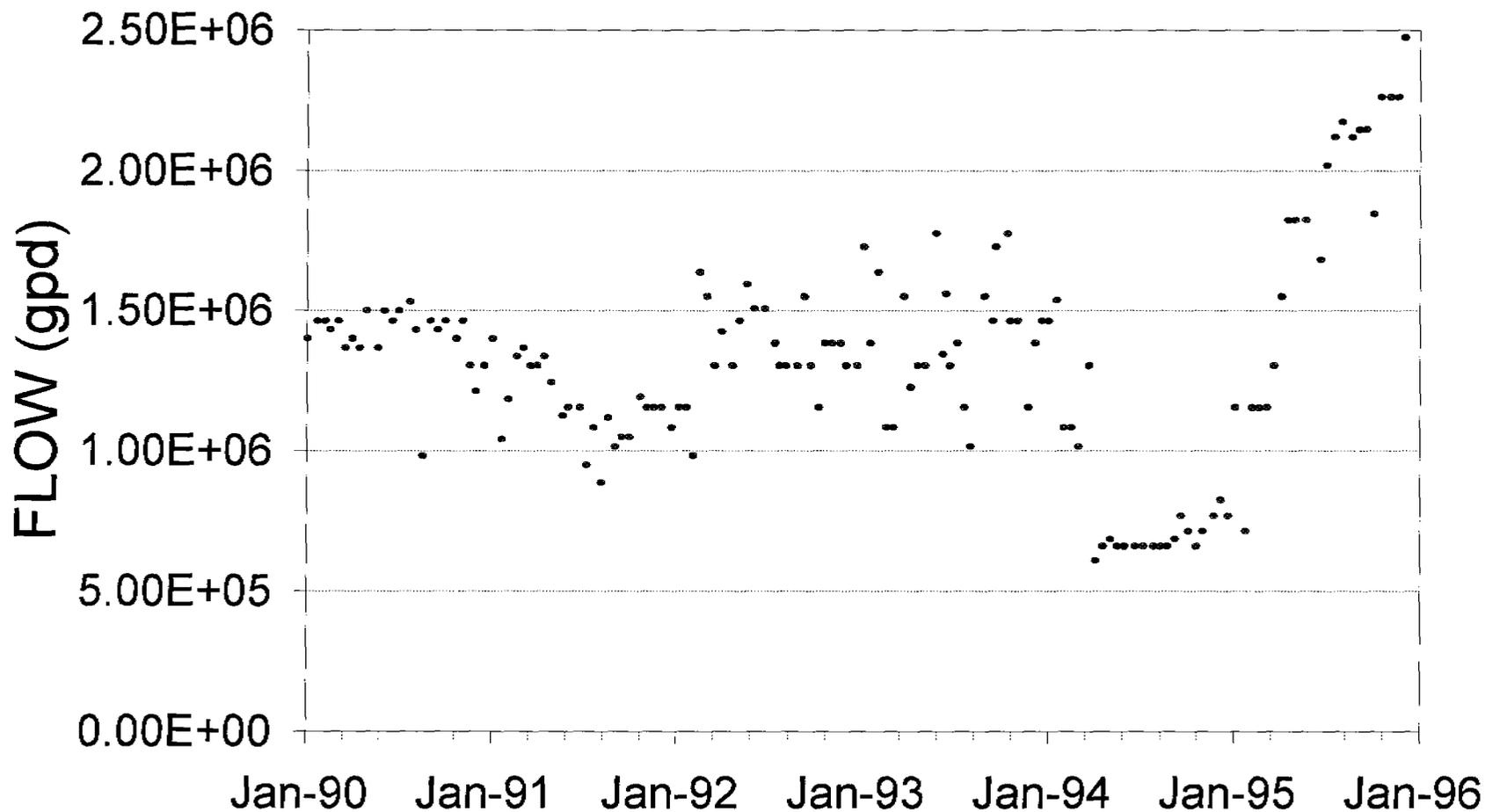
TABLE B-1

1995 DISCHARGE HISTORY BY MONTH PT003	
MONTH	FLOW (MG)
1	29.86
2	26.21
3	35.85
4	42.88
5	56.56
6	54.73
7	57.43
8	66.60
9	64.07
10	61.94
11	67.91
12	73.48
TOTAL	637.52

Note: The flow calculated in Table B-1 is based on the number of days in the month times the average flow observed on two separate times during the month.

DISCHARGE HISTORY POINT PT003

GALLONS PER DAY



C. Summarized Water Monitoring Data

1. The monitoring points and their respective frequencies of monitoring are listed in Table C-1.
2. Southern Utah Fuel Company discharges waters under UPDES Permit UT0022918. Three discharge points are permitted. During 1996 discharge only occurred at Point 003. Table C-2 below gives the three points and their locations.
3. Summary of findings for 1995 monitoring.
4. Water monitoring data is included as Lotus based files.

TABLE C-1

SUFECO SAMPLING SITES With Associated Frequencies						
Surface and Spring Sites:				Wells: (Water levels only)		Forest Service Flumes: (Flows only)
001	006	007	021	89-16-1	89-16-1W	FS96 FS109 FS110
022	030	041	042	89-18-1	89-18-1	
046	047	047a	057a	89-20-1	89-20-2	
062	089	090	GW13	89-20-2W	89-21-1	
GW21		WRDS#3		77-7	77-8	
WRDS#5		WRDS#6		77-9	79-9	
WRDS#8		WRDS#9		79-10	79-12	
				79-13	80-2	
				80-4	81-1	
				81-2	81-3	
				81-4		
Three samples per year: May-June, August-September, October-November. (Waste Rock Disposal Site Wells are to be sampled four times per year if accessible).						Once per month when accessible.

Table C-2

DISCHARGE POINTS UNDER UT0022918		
PT001	Mine Discharge- East Spring Canyon	Latitude 38° 54'55" Longitude 111° 24'54"
PT002	Sediment Pond Discharge- East Spring Canyon	Latitude 38° 54'52" Longitude 111° 24'58"
PT003	Mine Discharge- Quitcupah Canyon	Latitude 38° 54'26" Longitude 111° 23'06"

- D. **Precipitation or Other Climatological Data:**
Climatological data is submitted as Lotus files on the included diskette.

E. Subsidence Monitoring Report:

1. A brief description of the monitoring of subsidence above the SUFCO Mine is given in the subsidence report.
2. The displacement over the mining areas is shown on Map 1.
3. The control grid for the photogrammetric survey is shown on Map 1. Map 1 also shows the cumulative displacement observed and the subsidence in reference to the underground workings.
4. All mining during 1996 is currently planned to occur beneath USFS lands administered by the Manti-La Sal Forest, which has been previously notified of SUFCO's mining activity plans.
5. No sequence plan changes are anticipated.

1995 SUBSIDENCE REPORT

SOUTHERN UTAH FUEL COMPANY

MINE NO. 1

by

JOHN M. BLACK

CHIEF SURVEYOR

INTRODUCTION

Southern Utah Fuel Company's 1995 subsidence report is an update of annual subsidence data which has been accumulated since 1976. Prior to 1985, the data was derived from conventional survey methods. Since then, photogrammetric surveys have been employed to monitor the ground movement.

During 1985, the entire Southern Utah Fuel Company (SUFCO) property was flown to establish a set of baseline photography and a grid of surface elevations. Where possible, an elevation was photogrammetrically determined on an approximate 200 foot grid. These original x, y and z locations serve as a comparative base for determining ground movement in the succeeding years.

Once each year another set of aerial photography is obtained. A new elevation is then found at the same x and y coordinates as all the originals. The new, or current, elevations are compared to the originals and the difference between the two is used to generate a contour map. The result is the subsidence contour map included with each annual subsidence report.

The mine subsidence map accompanying this report shows surface control monuments, overburden contours, subsidence contours, surface tension cracks, a current outline of the mine, a one year mining projection and other miscellaneous items as explained in the legend.

SUBSIDENCE HISTORY

SUFCO began operations which cause surface subsidence in June, 1976. Continuous miners were used to extract coal from pillars which were developed as part of a retreating panel. The panels were approximately 650 feet wide and varied in length up to 2,500 feet. The average mining height approached 11 feet and the extraction ratio averaged about 80%.

The resulting subsidence from these continuous miner panels averaged 4 feet in the plateau areas where overburden was 900 feet thick. In areas where panel boundaries were outside the escarpment and beyond the Castlegate Sandstone, subsidence increased with decreasing overburden thickness. The maximum subsidence measured to date, 8.5 feet, occurred in one of these areas. The overburden was only 600 feet thick.

Retreat mining continued in this manner until October, 1985, when a retreating longwall system was added. Longwall panels have ranged from 550 feet to 930 feet wide and up to 14,150 feet in length. Mining heights have varied from 9.5 feet to 12 feet.

Subsidence above the longwall panels has averaged 4 feet; but the overburden thickness has been as much as 1,800 feet. The Maximum measured subsidence caused by longwall mining is seven feet. This occurred in an area outside the escarpment very similar to the one mentioned above for the continuous miner panel.

1995 SUBSIDENCE

The 1994 subsidence map (Map 1) was updated using data from current photogrammetric monitoring. Each subsidence area is labeled as an independent block. A brief description of each follows:

AREA 1

This was SUFCO's first subsidence area. Undermining began in June, 1976, and continued into 1979. The area is composed of five continuous miner panels which averaged 650 feet in width. Mining height averaged 11 feet with about an 80% extraction ratio.

Maximum subsidence ranged from 4.5 feet to 8.5 feet. It was first detected in 1976 and continued until 1985. No surface movement was detected in this entire area from 1986 to 1989. Area 1 was not monitored for the 1990 subsidence report and will remain dormant unless a need arises. Photographic coverage, however, has been maintained so that the area can be monitored if necessary.

AREA 2

This is another continuous miner area. The panels here were irregular shaped and the extraction ratio was modest. Undermining ceased in 1984.

Maximum subsidence has been measured at 2 feet. The area has been stable since 1985 and has not been monitored since 1989. The same condition as mentioned in Area 1 applies here.

AREA 3

This area is another continuous miner section, but the extracted area is a portion of mains with protective barriers instead of a panel. Coal recovery was moderate with mined areas which were subcritical. Undermining ceased in 1983.

Maximum subsidence was measured at 2 feet. Because of the limited extraction and subcritical areas, the subsidence occurred slowly with small changes noticeable until 1987. The area appeared stable in 1988 and 1989. It has not been monitored since 1989.

AREA 4

This subsidence area is comprised of three continuous miner panels. The mining height averaged 11 feet with a good extraction ratio. Undermining ceased in 1985.

Maximum subsidence was 5 feet with no detectable change in 1989. This area was monitored again in 1993, 1994 and 1995 with no detectable changes. This area has now been monitored for ten years since undermining ceased. The last detectable subsidence was in 1988. No further movement has been detected in the past seven years. Therefore, this area will be added to the dormant list with the same stipulations as other dormant areas.

AREA 5

The four continuous miner panels which make up this area were mined from September, 1978, to November, 1981. Mining height averaged 11 feet with an 80% extraction ratio.

Maximum subsidence was 5 feet with no detectable changes from 1985 through 1989. This area has not been monitored since 1991, and will also remain dormant. As with Areas 1 through 4, photographic coverage has been maintained so that monitoring can be done if necessary.

AREA 6

Area 6 is SUFCO's first longwall induced subsidence area. It is comprised of nine longwall panels varying from 540 feet to 700 feet in width and 1,700 feet to 3,900 feet in length. Also, there is a section of recovered mains between two of the longwall blocks. Undermining began in Area 6 during October, 1985, and continued through the mains recovery in March, 1990.

Maximum subsidence measured in areas bounded by the plateau is five feet. There is a location on the map which shows seven feet; but this area is outside the escarpment where the overburden is only 600 feet thick. The subsided escarpment is intentional and is part of a study agreed upon by SUFCO, the Division of Oil, Gas and Mining, the Bureau of Land Management and the U. S. Forest Service. This particular section of escarpment was removed from the "no subsidence zone" to study the effects of longwall mining on the escarpment.

Area 6 will be monitored for several more years. No changes have been detected since 1992.

AREA 7

Area 7 was originally planned for no subsidence. Pillars were made to support the overburden but began to fail in the north end in 1984 when the underground workings were flooded. The failures progressed towards the south and by 1986, subsidence was detected over the area.

The map shows up to seven feet of subsidence. There has been no additional subsidence movement detected since 1988. This makes seven consecutive years of monitoring without a change. Therefore, this area will also be considered as dormant.

AREA 8

Undermining this area began in June, 1983, and was sporadic until 1992. Continuous miners were used with extraction ratios over 80% and average mining heights of 10 feet. This is still an active area and will be for several more years. Maximum subsidence to date is five feet. No noticeable vertical movement was detected in 1994.

AREA 9

This area is a longwall mining area which is composed of four panels. The first began in June, 1989 and the block was finished in January 1992. The mining height averaged about 11 feet and the maximum subsidence shown to date is five feet.

AREA 10

Area ten is a new longwall mining block which began in January 1992. The entire surface area above this block was digitized for base-line elevations during 1991. Maximum subsidence shown to date is four feet. This area will be active for several more years.

The experimental mining practice area discussed under "Area 6" was extended, with regulatory approval, to the east side of the canyon under the Southwest corner of "Area 10". An extensive premining survey of this location was conducted late in 1992. A detailed survey of the post-mining subsidence effects was provided in the 1993 report.

DRAW ANGLE SURVEYS

Several draw angle surveys have been performed during the past years. Completed surveys have been over continuous miner areas and have been oriented both parallel and perpendicular to the long axis of the panel. The average of all measurements is 15°. Individual measurements ranged from 10° to 21°.

Longwall draw angle data was obtained in 1995. Draw angle points were installed in May 1986, on the southern end of the first panel in "Area 6". As shown on the subsidence map, survey lines were placed parallel and perpendicular to the axis of the panel. Undermining of this panel was completed in June 1986. Measurements were taken in 1995 and indicate an angle 15.25° for the perpendicular line. An angle for the parallel line was not obtained because the mains underlying the survey line were partially extracted. These findings coincide with the average of 15° as stated above.

SUBSIDENCE TENSION CRACKS

Tension cracks have occurred above most of the subsidence areas. Most have been located by survey and are plotted on Map 1. Their lengths vary from a few feet to nearly two hundred feet. Most are oriented either parallel to the natural jointing pattern or to the boundaries of the underground excavation. Vertical displacement along the cracks is uncommon and horizontal displacement varies from hairline to several inches in width.

The U. S. Forest Service completed a tension crack study in 1978. They monitored twenty-two different cracks (located in Area 1) with widths varying from 1/8 inch to six inches. Results show that most cracks self-heal, or close, from 13% to 100% of their original width.

CONCLUSION

Due to the findings of the 1995 report, Areas 4 and 7 will be added to the dormant list along with Areas 1, 2, 3, and 5. Photographic coverage will be maintained but yearly digitizing will not be done unless necessary. Yearly monitoring of Areas 6, 8, 9 and 10 will continue until subsidence has been determined to have ceased on an area by area basis.

A longwall draw angle of 15.25° obtained in 1995 supports our previous average draw angle of 15° .

Additional tension cracks were added to the map in "Area 10" where active mining is taking place.

JMB : F:\WORK\WP1996\DD\SUBSID95.RPT

F. Vegetation Data

The reclaimed areas of the Waste Rock Disposal Site were monitored in July of 1995 by Endangered Plant Studies, Inc. Their report is attached. The reclaimed areas of the Waste Rock Disposal Site were planted with shrub seedlings during the spring of 1995. The planting rate was 500 shrubs per acre. The shrubs planted were: 1) Amelanchier alnifolia (alnifolia was substituted for utahensis as the latter species was unavailable), 2) Purshia tridentata, 3) Cercocarpus ledifolius, 4) Cercocarpus montanus, and 5) Rosa woodsii.

The revegetation test plot at the mine site was also planted with these same shrubs at the same rate during the spring of 1995.

Vegetation Monitoring
of the
Waste Rock Disposal

Prepared for:

Southern Utah Fuels Company
P.O. Box 719
Helper, Utah 84526

Attention: Mr. Keith Zobell

Prepared by:

Stanley L. Welsh and Ronald J. Kass
Endangered Plant Studies, Inc.
129 North, 1000 East
Orem, Utah 84057

25 July 1995

INTRODUCTION

This report describes the 17 July 1995 sampling and monitoring of Southern Utah Fuels Company (SUFCO) waste rock disposal (WRD) site. The WRD site was sampled previously during 1992 and 1994. The 1995 year represents the third year of monitoring as described in the SUFCO Waste Rock Mining and Reclamation Plan (MRP) Table 4.6.3-1.

The 1995 monitoring schedule sampled two treatment methodologies, the smooth east side first lift of the WRD and a pitted second lift contiguous to the west. In 1994 the second lift was treated by pitting using a range-improvement technique, with the first lift east side left in the smooth condition. Comparison data for the two treatment methodologies are included in Table 1 and Table 2 respectively. Comparison data for 1992, 1994, 1995, and the 1992 reference site are included in Table 3.

In the spring of 1995, the WRD site was planted with shrub seedlings (rose, bitterbrush, mountain mahogany, and serviceberry) to increase the woody plant density and diversity. Seedlings were purchased from Lone Peak Nursery; the planting rates were not determined. Resident shrub species such as sagebrush and rabbitbrush were more noticeable this year; they are still small (circa 5 inches tall) and contribute little to overall cover. Sampling was conducted by Drs. Stanley L. Welsh and Ronald J. Kass of Endangered Plant Studies (EPS).

Methods

Sampling was conducted according to Division of Oil Gas and Mining (DOGM) vegetation guidelines (February 1992). Percent cover was estimated by the ocular method separately for both the smooth and pitted treatment areas (i.e., lifts 1 and 2 respectively). Sampling procedures were discussed with Paul Baker (Reclamation specialist DOGM) in 1992.

Percent cover estimates

A 150 m tape was stretched across the longest axis of each treatment type on the WRD. Random numbers were generated and the corresponding numbers were used to locate the 1m² quadrats along the 75 m transect. After sampling a minimum of 15 quadrats, sample adequacy was computed; minimal sample size for the each WRD treatment was N=15. A t-value=1.645 and d-value=0.1 were used as coefficients to calculate sample adequacy.

Results

WRD-First Lift-Smooth

Total mean plant cover was $\bar{x} = 71.0\%$ ($S=9.16$). Grasses accounted for 68.7% of total cover representing 96.7% of the species composition. Forbs and shrubs comprised somewhat less than 3% of the remaining live plant cover (Table 1). Some shrub establishment was observed on the first lift WRD site, mainly about 5 inch tall seedlings of big rabbitbrush and big sagebrush. Shrubs contributed only 1.0% live cover or about 1.4% of the total species composition.

WRD-Second Lift-Pitted

Total mean plant cover was $\bar{x} = 59.7\%$ ($s=7.98$). Some 36.7% of total plant cover consisted of grasses comprising 61.4% of the species composition. Forbs accounted for 20.9% of the cover and represented 34.9%

or the species composition. Shrubs contributed 2.3% of the cover and 3.8% of the species composition.

Table 1. Percent cover and species composition of WRD first lift, smooth.

	% cover	% composition
Bare ground	16.7	
Litter	12.3	
<u>Grasses</u>		
Agropyron cristatum	0.7	0.9
Bromus commutatus	t	
Bromus tectorum	0.1	0.2
Elymus cinereus	3.0	4.2
Elymus lanceolatus	13.4	18.9
Elymus smithii	47.2	66.5
Elymus spicatus	3.6	5.1
Stipa hymenoides	0.7	0.9
Grass totals	68.7	96.7
<u>Forbs</u>		
Achillea millefolium	0.3	0.5
Collomia linearis	t	
Descurainia sophia	0.2	0.3
Gayophytum ramosissimum	t	
Heliomeris multiflora	0.3	0.5
Lappula occidentalis	0.3	0.5
Lactuca serriola	t	
Forb totals	1.1	1.8
<u>Shrubs</u>		
Artemisia tridentata	0.3	0.5
Chrysothamnus nauseosus	t	
Chrysothamnus viscidiflorus	t	
Purshia tridentata	0.7	0.9
Shrub totals	1.0	1.4
Totals	71.0	99.9

Table 2. Percent cover and species composition for WRD second lift, pitted.

	% cover	% composition
Bare ground	31.8	
Litter	8.3	
<u>Grasses</u>		
Agropyron cristatum	1.7	2.8
Bromus commutatus	t	
Bromus marginatus	11.7	19.5
Bromus tectorum	1.3	2.2
Dactylis glomerata	4.4	7.4
Elymus cinereus	0.7	1.2
Elymus lanceolatus	6.4	10.7
Elymus smithii	8.5	14.2
Elymus spicatus	1.3	2.2
Stipa hymenoides	0.7	1.2
Grass totals	36.7	61.4
<u>Forbs</u>		
Achillea millefolium	3.0	5.0
Descurainia sophia	0.3	0.5
Heliomeris multiflora	0.5	0.8
Lactuca serriola	t	
Lappula occidentalis	t	
Linum perenne	12.6	21.1
Penstemon palmeri	4.2	7.0
Polygonum aviculare	0.2	0.5
Forb totals	20.9	34.9
<u>Shrubs</u>		
Artemisia tridentata	1.4	2.3
Chrysothamnus nauseosus	0.9	1.5
Shrub totals	2.3	3.8
Totals	59.7	100.1

Table 3. Percent cover and species richness for 1992, 1994, 1995, and 1992 reference site.

Variables	Years	1992	1994	1995 2nd lift	1995 1st lift	Reference site
Bare ground		35.4	28.6	31.8	16.7	8.8
Litter		8.3	12.2	8.3	12.3	24.0
Grasses		45.1	30.3	36.7	68.7	30.1
Forbs		11.2	27.0	20.9	1.1	0.2
Shrubs		0.0	2.0	2.3	1.0	36.8
Totals		56.3	59.4	59.7	71.0	67.2
Species richness		14	16	20	19	7

Discussion

The WRD surveyed in the 1995 had been subjected to two different reclamation techniques. A basin-lifting technique was utilized to prepare an indented surface for the second lift; the first lift had been contoured into a smoothly rounded surface. The pitted surface overlying the second lift thus allowed for concentration of water into rather small areas, possibly contributing to the establishment during 1994 of robust plants of Russian thistle that accounted for 18.9 percent of the vegetative cover. The concentrated water might have also resulted in growth of shrubs, which were not present in measurable quantity on the previously revegetated smooth lift. Grasses apparently did not respond equally well to the indented surface technique, although there was greater diversity of grass species than previously. Grass cover increased at the expense of forbs, especially that of Russian thistle, during the 1995 season, wherein excessive annual precipitation resulted in a luxuriant growth on both reclaimed areas. Perhaps the best approach is to use the indented basin technique and to have the seeds drilled over the indented surface, thus flattening the ridges somewhat. The Russian thistle might then have a more difficult time initially, resulting in greater production of grasses and shrubs.

Grass and forb cover on the two WRD treatments exceeded that of the reference site as determined in 1992, but the shrub cover, though increasing, is still far short of the 36.8% cover of the reference site.

The Waste Rock Disposal Area revegetation is progressing, but is still a distance away from approaching the cover and composition of the reference area.

A possible solution to increasing shrubs in the long term might involve harvesting of mature inflorescences of big sagebrush from below the reference site and broadcasting them on both lifts one and two. That should provide an abundant seed source on site. Substantial germination of sagebrush seeds might increase the potential for shrub intermix among the other grass and forb vegetation.

G. Annual Impoundment Certification:

The annual impoundment certifications for the mine site and waste rock disposal site sedimentation ponds are included. No sign of instability, structural weakness or other hazardous condition were observed.

ANNUAL MINESITE SEDIMENTATION POND
CERTIFICATION -- 1995

An inspection of Southern Utah Fuel Company's Minesite Sediment Pond was conducted by Wesley K. Sorensen, P.E. on November 8, 1995.

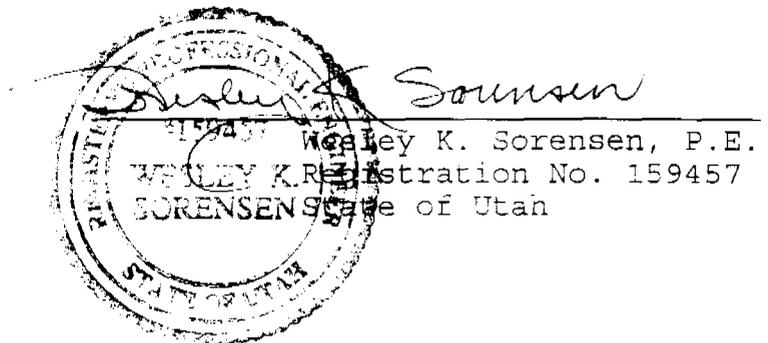
No signs of structural weakness of the dam or surrounding slopes were observed.

The fill slope above the pond has minor erosion gullies in several locations. No signs of instability of the fill slope were noted.

The water level in the pond during the inspection was 7414.25 ft, which is 3.9 ft below the standpipe spillway elevation. An additional 0.73 acre-ft of storage volume was available in the pond above the current water level. The sediment level in the pond was at 7404.60 ft, which was below the 60% sediment level (7408.9 ft). A total of 1.85 acre-ft of storage volume is available above the sediment level.

A copy of the field notes is attached.

I certify that the above description accurately represents the condition of the Minesite Sediment Pond as observed during my inspection on November 8, 1995.



WKS:kb

Attachment

ANNUAL WASTE ROCK SEDIMENTATION POND
CERTIFICATION -- 1995

An inspection of Southern Utah Fuel Company's Waste Rock Sediment Pond and associated Decant Impoundment was made on November 8, 1995 by Wesley K. Sorensen, P.E.

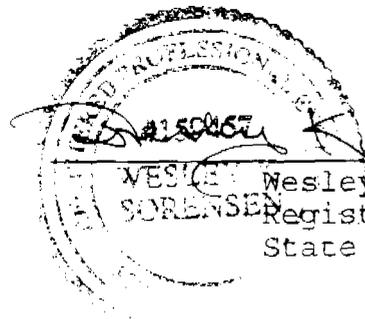
No signs of structural weakness of the sediment pond dam or decant impoundment dam were observed.

The diversion ditches, spillways and decant devices are in as-constructed condition and are functional.

No water was present in the pond. The sediment level at the center of the pond was at 7884.0 ft. The 60% sediment level for the pond is at 7885.15 ft. About 0.71 acre-ft of storage volume was available in the pond. No sediment or water was observed in the decant impoundment.

A copy of the field notes of the inspection is attached.

I certify that the above description accurately represents the condition of the Waste Rock Sedimentation Pond and Decant Impoundment observed during the inspection.


Wesley K. Sorensen
WESLEY K. Sorensen, P.E.
SORENSEN Registration No. 159457
State of Utah

WKS:kb

Attachment

2/27/92 MLD

SOUTHERN UTAH FUEL COMPANY

Rock Waste Sediment Pond ^{Annual}~~Quarterly~~ Inspection Report

Inspector Wesley K. Sorenson Date November 8, 1999

- 1. Dam Structural Weakness
 - A. Cracks or scarps on crest Yes No

 - B. Cracks or scarps on slope Yes No

 - C. Sloughing or bulging on slope Yes No

- 2. Major Erosion Problems Yes No

- 3. Surface Movements of Surrounding Slopes Yes No

- 4. Visible Sumps or Sinkholes in Slurry Surface Yes No

- 5. Clogging
 - A. Spillway channels and pipes Yes No

B. Decant System Yes No

Locked

C. Diversion ditches Yes No

Clear

6. Seepage (Specify Location, Color and Approx. Volume)

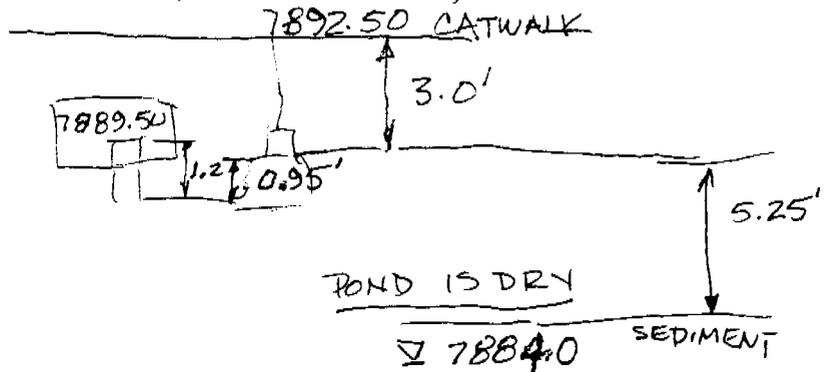
Yes No

7. Any appearance of instability, structural weakness, or other hazardous conditions Yes No

8. Other Comments

Decant impoundment:

No instability, No hazardous condition, No structural weakness, No cracks, No erosion



2/27/92 MLD

SOUTHERN UTAH FUEL COMPANY

Minesite Sediment Pond ^{Annual}~~Quarterly~~ Inspection Report

Inspector Wesley Sorenson Date November 18, 1992

1. Dam Structural Weakness
 - A. Cracks or scarps on crest Yes No

 - B. Cracks or scarps on slope Yes No

 - C. Sloughing or bulging on slope Yes No

2. Major Erosion Problems Yes No

3. Surface Movements of Surrounding Slopes Yes No

4. Visible Sumps or Sinkholes in Slurry Surface Yes No

5. Clogging
 - A. Spillway channels and pipes Yes No

55° sunny
wind 10-15 mph

B. Decant System Yes No

Locked

C. Diversion ditches Yes No

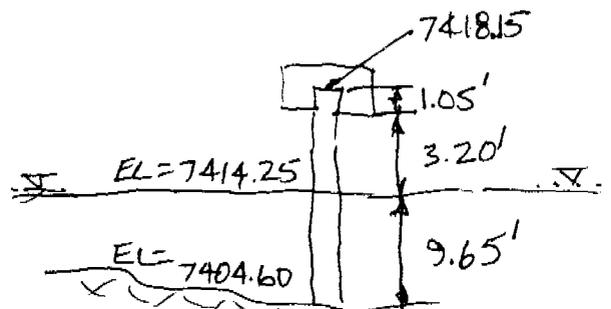
6. Seepage (Specify Location, Color and Approx. Volume) Yes No

7. Any appearance of instability, structural weakness, or other hazardous conditions Yes No

8. Weir level Yes No

9. Other Comments

Erosion present on slope above pond.
Small gulleys starting to form.
Gully 10-12" wide up to 2 ft deep on west slope
at toe of road. - Needs riprap.



H. Annual Overburden, Spoil, Refuse, Roof, Floor, and Mid-Seam Data:

1. Southern Utah Fuel Company's waste rock disposal site is located 6.4 miles from the minesite in the NW 1/4 of NE 1/4 of Section 18, Township 22 South, Range 4 East, SLB&M. Because no washing of coal is done at the mine refuse material is only produced when rehabilitating old work areas and when doing construction work that requires additional mining height. The refuse produced consists predominantly of coal with a small amount of rock from the first foot of floor rock and the first four feet of roof rock. Systematic sampling of roof and floor rock is not done because of the small amount and infrequency in which these materials are encountered.
2. Representative grab samples are taken of all refuse material as it is removed from the mine. The samples are composite on a quarterly basis making for a 50-100 pound sample that is analyzed. Sample preparation includes crushing to 4 mesh and riffing to a representative 5-10 pound size for analysis.
3. Laboratory analysis sheets are included.
4. A summary table of analytical results from the quarterly samples is included.

ANNUAL WASTE ROCK DISPOSAL SITE
CERTIFICATION -- 1995

An inspection of Southern Utah Fuel Company's Waste Rock Disposal Site was made by Wesley K. Sorensen, P.E. on November 8, 1995.

The active area pad of the third cell has approximate dimensions of 200 ft x 75 ft. Underground development waste is dumped from 10 wheel end-dump trucks in piles about 3.5-4 ft high. These piles are leveled with a D-6 Cat dozer. The resulting lift thickness is 18-24 inches. The dozer and loaded trucks are routed over the pad to compact the lift.

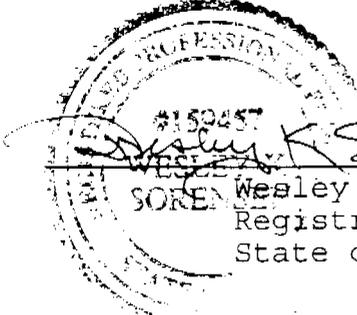
Final and intermediate construction slopes were at or less than the designed 1v:2h. Slopes are constructed such that water cannot collect against the toe.

No fires have occurred at the site since it was constructed and none were observed during the inspection.

No significant erosion was observed.

A copy of the field notes is attached.

I certify that the above description accurately represents the conditions observed at the Waste Rock Disposal Site during my inspection on, November 8, 1995.


Wesley K. Sorensen, P.E.
Registration No. 159457
State of Utah

WKS:kb

Attachment

F:\WORK\GOVT1995\DOCMCORR\ANNUAL95.WKS

SOUTHERN UTAH FUEL COMPANY

Coal Refuse Piles ^{Annual} ~~Quarterly~~ Inspection Report

Inspector Wesley K Sorensen Title PE

Date November 8, 1995 Permit # ACT/041/002

1. Foundation Preparation (vegetation, topsoil removal?)

Active Pad \approx 75' x 200' Yes No

2. Lift Thickness (inches) 18-24"

3. Compaction Routing of trucks & Db Yes No

4. Burning (specify extent and location) Yes No

None during year 1

5. Angle of Slope (degrees) EAP: 23° S: 22° W: 23°
working lift

6. Seepage (specify location, color, & appr. volume) Yes No

7. Cracks or Scarps (location and size) Yes No

8. Major Erosion Problems (location and extent) Yes No

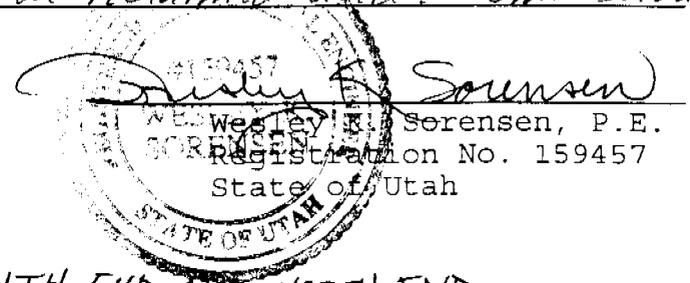
small rill down interface active & reclaimed 18-24" wide

9. Water Impounding Against Toe Yes No

10. Any appearance of instability, structural weakness or other hazardous conditions Yes No

Vegetation is best yet on reclaimed area. Some shrubs!

Sunny 53°
10-15 mph wind



END DUMPED PILES ON SOUTH END AND NORTH END OF PAD. - NEED TO BE SPREAD & COMPACTED

WASTE ROCK DISPOSAL SITE ANALYSES OF MATERIAL

Qtr	Year	pH of Paste Extract (SU)	Alkaline of Paste Extract (meq/L)	Electrical Conduct. (mmhos/cm)	Water Satur. (wt.%)	Calcium (meq/L)	Magnesium (meq/L)	Sodium (meq/L)	Sodium Absorp. Ratio	Total Sulfur (wt.%)	Total Sulfur A.B. (T/1000T)	Neutral. Potent. (T/1000T)	Total Sulfur A.B.P. (T/1000T)	-Water Soluble- Boron (ppm)	Selenium (ppm)
7/2/1987		8.1		4.10		28.3	24.1	10.50	2.10						
5/3/1988		8.2		3.60	54.61				1.31	1.00				3.80	0.01
4	1988	8.4		9.54	56.64				6.41	0.38				7.50	0
1	1989	8.0		7.47	46.70	53.0	24.2	15.70	2.53	0.93	29.1	168.0	139.0	2.70	0.02
2	1989	7.2	3.58	3.68	36.80	24.2	16.1	8.80	2.00	0.99	30.9	203.0	172.0	0.89	0.02
3	1989	7.9		5.78		33.7	27.6	10.50	1.90	0.85	26.6	268.0	241.0	1.78	0.02
4	1989	7.5	1.58	4.60	46.40	26.5	17.8	8.70	1.90					0.73	0.02
1	1990	6.8	3.61	4.03	43.60	30.5	21.9	4.60	0.90	0.84	26.2	65.0	39.0	3.06	0.02
2	1990	7.3	2.01	3.32	41.20	23.1	18.5	2.60	0.56	1.24	38.7	100.0	61.0	2.27	0.02
3	1990	7.6	3.07	4.42	40.20	25.0	12.0	20.80	4.83	0.34	10.6	137.0	127.0	3.22	0.02
4	1990		0.94	5.87	40.40	41.5	31.8	13.80	2.27	0.53	16.6	157.0	141.0	6.44	0.02
1	1991		2.18	3.80	40.10	26.1	15.2	9.95	2.19	0.52	16.2	52.8	36.5	1.94	0.02
2	1991		1.63	3.68	42.80	26.6	12.9	6.89	1.55	0.65	20.3	184.0	164.0	3.96	0.02
3	1991	7.4	2.00	6.54	36.40	29.8	31.4	18.20	3.29	0.35	10.9	313.0	302.0	3.48	0.02
4	1991	7.4	3.03	6.45	36.70	28.8	24.8	27.50	5.31	0.52	16.2	205.0	188.0	3.52	0.02
1	1992	6.7	2.64	9.05	40.80	33.6	28.6	40.40	7.24	0.61	19.1	159.0	140.0	4.81	0.02
2	1992	7.3	1.86	4.26		23.9	13.9	10.20	2.33	0.50	15.7	120.0	104.0	4.42	0.07
3	1992	6.9	3.68	6.87	35.70	27.9	27.7	21.70	4.11	0.49	15.3	185.0	169.0	5.54	0.04
4	1992	7.1	3.34	16.00	42.10	35.9	20.6	107.00	20.10	0.43	13.4	245.0	231.0	4.71	0.02
1	1993	7.6	2.13	5.75	39.90	26.6	18.3	21.20	4.48	0.51	15.9	205.0	189.0	5.24	0.03
2	1993	7.5	2.36	8.44	38.40	37.4	38.1	20.70	3.36	0.75	23.4	170.0	147.0	3.75	0.02
3	1993	7.3	2.98	7.17	44.30	31.1	26.8	27.00	5.02	0.43	13.4	-0.7	-14.1	6.23	0.03

WASTE ROCK DISPOSAL SITE ANALYSES OF MATERIAL

Qtr	Year	pH of Paste Extract (SU)	Alkalin. of Paste Extract (meq/L)	Electrical Conduct. (mmhos/cm)	Water Satur. (wt.%)	Calcium (meq/L)	Magnesium (meq/L)	Sodium (meq/L)	Sodium Absorp. Ratio	Total Sulfur (wt.%)	Total Sulfur A.B. (T/1000T)	Neutral. Potent. (T/1000T)	Total Sulfur A.B.P. (T/1000T)	-Water Soluble- Boron (ppm)	Selenium (ppm)
4	1993	7.5	2.43	7.14	43.40	32.8	29.8	20.10	3.59	0.68	21.2	98.7	77.4	5.48	0.02
1	1994	7.0	4.49	5.79	60.50	27.5	11.9	21.20	4.78	0.48	15.0	47.1	32.1	6.45	0.02
2	1994	6.5	4.15	5.18	42.70	28.4	20.4	17.03	3.51	0.41	12.8	122.0	109.0	5.28	0.02
3	1994	7.2	1.68	5.69	41.30	28.1	26.6	11.40	2.17	1.23	38.4	89.3	50.9	5.44	0.04
4	1994	7.3	2.15	91.50	41.20	71.5	27.8	930.00	132.00	0.78	24.4	186.0	162.0	3.72	0.02
1	1995	7.3	1.68	4.54	38.30	24.2	17.5	15.90	3.49	0.37	11.6	131.0	120.0	4.01	0.02
2	1995	7.0	2.34	5.40	39.70	26.5	13.3	16.10	3.61	0.78	24.4	147.0	123.0	3.45	0.02
3	1995	6.3	5.15	7.18	45.60	36.6	37.6	12.10	1.98	0.95	29.7	101.0	71.7	5.10	0.02
4	1995	7.7	1.49	3.01		18.6	8.6	11.10	3.01	0.33	10.3	56.4	46.1	5.49	0.02
	Min	6.3	0.94	3.01	35.70	18.6	8.6	2.60	0.56	0.33	10.3	-0.7	-14.1	0.73	0
	Max	8.4	5.15	91.50	60.50	71.5	38.1	930.00	132.00	1.24	38.7	313.0	302.0	7.50	0.07
	Avg	7.4	2.62	8.70	42.83	31.3	22.3	50.40	7.87	0.65	20.2	145.0	124.8	4.15	0

- Notes: 1. Absence of a value indicates that the parameter was not analyzed.
2. The detection limit for selenium is 0.02 ppm. Analysis values equal to or less than 0.02 are entered as 0.02.
3. Analytical methods used are those approved by the State of Utah.



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Sheridan, Wyoming 82801

SOUTHERN UTAH FUEL CO.
Tel. (307) 672-8945

SOUTHERN UTAH FUEL COMPANY
SALENA, UTAH

April 21, 1995

Page 2 of 2

Lab No.	Location	Depths	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t	Boron ppm	Selenium ppm	Alkalinity PE meq/l
120008	WRDS 1 QTR 95		0.37	11.6	131.	120.						4.01	<0.02	1.68

Abbreviations for extractants: PE= Saturated Paste Extract, H2Osol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
 Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur,
 Neut. Pot.= Neutralization Potential



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SALENA, UTAH

April 21, 1995

Page 1 of 2

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Satur- ation %	Calcium mg/l	Magnesium mg/l	Sodium mg/l	SAR
120008	WRDS 1 QTR 95		7.3	4.54	38.3	24.2	17.5	15.9	3.49

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



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Page 1 of 2

Lab No.	Location	Depths	pH	EC mahos/cm @ 25°C	Satur- ation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR
123496	WRDS 2ND QTR 95		7.0	5.40	39.7	26.5	13.3	16.1	3.61



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August 2, 1995

Page 2 of 2

Lab No.	Location	Depths	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t	Boron ppm	Selenium ppm	Alkalinity PE meq/l
123496	WRDS 2ND QTR 95		0.78	24.4	147.	123.						3.45	0.02	2.34

Abbreviations for extractants: PE= Saturated Paste Extract, H2Osol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
 Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur,
 Neut. Pot.= Neutralization Potential



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SALENA, UTAH

October 18, 1995

Page 1 of 2

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Satur- ation %	Calcium meq/l	Magnesium meq/l	Sodium meq/l	SAR
128599	WRDS 3 QTR 95		6.3	7.18	45.6	36.6	37.6	12.1	1.98



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SALENA, UTAH

October 18, 1995

Page 2 of 2

Lab No.	Location	Depths	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t	Boron ppm	Selenium ppm	Alkalinity PE meq/l
128599	WRDS 3 QTR 95		0.95	29.7	101.	71.7						5.10	<0.02	5.15

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
 Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur,
 Neut. Pot.= Neutralization Potential



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Tel. (307) 672-8945

SOUTHERN UTAH FUEL COMPANY
SALINA, UTAH

January 19, 1996

Page 1 of 2

Lab No.	Location	Depths	pH	EC mmhos/cm @ 25°C	Calcium mg/l	Magnesium mg/l	Sodium mg/l	SAR
130275	WRDS 4TH QTR 95		7.7	3.01	18.6	8.61	11.1	3.01

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage, Exch= Exchangeable, Avail= Available



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SOUTHERN UTAH FUEL COMPANY
SALINA, UTAH

January 19, 1996

Page 2 of 2

Lab No.	Location	Depths	Total Sulfur %	T.S. AB t/1000t	Neut. Pot. t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyrS AB t/1000t	PyrS ABP t/1000t	Boron ppm	Selenium ppm	Alkalinity PE meq/l
130275	WRDS 4TH QTR 95		0.33	10.3	56.4	46.1						5.49	<0.02	1.49

Abbreviations for extractants: PE= Saturated Paste Extract, H2OSol= water soluble, AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
 Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur,
 Neut. Pot.= Neutralization Potential

I. The list of officers and control information submitted and approved during 1994 is still current.

Report Generated: 01/25/1996 - 12:44

American Natural Resources Company

One Woodward Avenue

Detroit, Michigan 48226

Phone: (313)496-0200

Employer ID. No. 13-5553550

Incorporated: New Jersey 04/06/1901; Delaware 02/16/1983

Qualified To Do Business: D.C. 01/08/82; Illinois 01/21/82; Iowa 04/14/88; Michigan 06/30/83.

Coastal Natural Gas Company owns 100% of the stock in American Natural Resources Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
David A. Arledge	Director	12/02/1993	
David A. Arledge	Executive Vice President	10/18/1989	12/02/1993
David A. Arledge	Senior Exec. Vice President	12/02/1993	09/21/1994
Michael L. Beatty	Executive Vice President	10/18/1989	03/19/1993
Michael L. Beatty	General Counsel	03/18/1987	03/19/1993
John M. Bissell	Director	04/25/1979	
Jerry D. Bullock	Senior Vice President	09/16/1992	09/21/1994
Harold Burrow	Chairman of the Board	07/21/1993	
Harold Burrow	Director	03/23/1985	
Harold Burrow	Vice Chairman of the Board	09/21/1988	07/21/1993
Roy D. Chapin, Jr.	Director	09/21/1973	
Frederick H. Clark	Assistant Secretary	05/17/1989	
Pauletta P. Cohn	Assistant Secretary	05/15/1991	07/22/1993
Jeffrey A. Connelly	Director	09/21/1994	
Jeffrey A. Connelly	Executive Vice President	09/21/1994	
Jeffrey A. Connelly	Treasurer	11/16/1988	09/21/1994
Jeffrey A. Connelly	Vice President	11/16/1988	09/21/1994
James F. Cordes	Chief Executive Officer	07/21/1993	
James F. Cordes	Director	03/23/1985	
James F. Cordes	President	08/31/1985	
James F. Cordes	Vice Chairman of the Board	09/21/1994	
Carl A. Corrallo	General Counsel	05/11/1993	09/21/1994
Carl A. Corrallo	Senior Vice President	05/11/1993	09/21/1994
Lawrence P. Doss	Director	05/14/1980	
Jay L. Gallia	Assistant Secretary	05/17/1989	09/21/1994
Donald H. Gullquist	Senior Vice President	09/21/1994	
Coby C. Hesse	Senior Vice President	09/21/1994	
Coby C. Hesse	Vice President	09/17/1986	09/21/1994
Martha O. Hesse	Director	07/01/1990	
Thomas E. Jackson, Jr.	Vice President	09/21/1994	
William L. Johnson	Controller	08/01/1991	
William L. Johnson	Vice President	08/01/1991	
Richard A. Lietz	Director	09/21/1994	
Richard A. Lietz	Executive Vice President	09/21/1994	
Wilber H. Mack	Director	06/23/1986	

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American Natural Resources Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
J. Carleton MacNeil, Jr.	Director	08/17/1993	
Lawrence R. Marantette	Vice President	03/18/1987	09/21/1994
Michael E. Maslyn	Vice President	06/23/1986	
Ronald D. Matthews	Treasurer	09/21/1994	
Ronald D. Matthews	Vice President	09/21/1994	
James H. McNeal, Jr.	Director	04/28/1982	
Thomas L. Miller	Vice President	05/17/1989	05/21/1992
John C. Mills	Assistant Treasurer	09/19/1990	
Robert E. Moss	Vice President	04/24/1985	09/30/1993
Harold R. Natho	Assistant Controller	07/01/1986	
Rebecca H. Noecker	General Counsel	09/21/1994	
Rebecca H. Noecker	Senior Vice President	09/21/1994	
Austin M. O'Toole	Secretary	06/16/1986	
Austin M. O'Toole	Senior Vice President	09/21/1994	
Charles M. Oglesby	Director	10/05/1992	09/21/1994
Dennis J. Paruch	Vice President	05/21/1992	09/21/1994
James R. Paul	Chairman of the Board	08/31/1985	07/20/1993
James R. Paul	Director	03/23/1985	07/20/1993
Dale V. Shultz	Assistant Secretary	05/17/1989	
Walter E. Spencer	Senior Vice President	03/18/1987	07/17/1992
James L. Van Lanen	Senior Vice President	03/18/1987	09/21/1994
William P. Vititoe	Director	10/25/1990	11/17/1993
William P. Vititoe	Executive Vice President	10/25/1990	11/17/1993
Jon R. Whitney	Director	07/15/1992	09/21/1994
Oscar S. Wyatt, Jr.	Director	03/23/1985	

American Natural Resources Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
Coastal Natural Gas Company	Stock Holder 100%	05/14/1985	

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ANR Coal Company
P. O. Box 1871
310 First Street
Roanoke, Virginia 24008
Phone: (540)983-0222 Employer ID. No. 38-2239482

Incorporated: Delaware 12/01/1978
Qualified To Do Business: Virginia 05/23/1979
American Natural Resources Company owns 100% of the stock in ANR Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/07/1987	
David A. Arledge	Director	01/31/1995	
David A. Arledge	Executive Vice President	08/03/1989	01/31/1995
David A. Arledge	Senior Vice President	09/01/1985	08/03/1989
Jeffrey A. Connelly	Director	01/31/1995	
Jeffrey A. Connelly	Treasurer	02/24/1989	01/31/1995
Jeffrey A. Connelly	Vice President	02/24/1989	01/31/1995
James F. Cordes	Director	04/24/1985	
Robert A. Feilner	Director	01/08/1993	
Robert A. Feilner	Senior Vice President	01/08/1993	
Jay L. Gallia	Assistant Secretary	05/08/1987	01/31/1995
John S. Gennaro	Assistant Secretary	05/05/1989	01/31/1995
Edward P. Gleichauf	Controller	08/27/1987	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	09/11/1986	
William S. Hudgins, Jr.	General Counsel	09/11/1986	
William S. Hudgins, Jr.	Vice President	09/11/1986	
Robert J. Hummel	Director	03/01/1982	04/24/1985
Robert J. Hummel	Director	09/01/1985	09/01/1992
Robert J. Hummel	Senior Vice President	06/18/1984	09/01/1992
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Lauren W. Jones	Assistant Secretary	05/21/1992	01/31/1995
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Harold R. Natho	Assistant Controller	05/09/1986	
Austin M. O'Toole	Director	09/01/1985	01/31/1995
Austin M. O'Toole	Secretary	09/01/1985	
Austin M. O'Toole	Senior Vice President	01/31/1995	
James R. Paul	Chairman of the Board	03/16/1987	07/20/1993
James R. Paul	Director	04/24/1985	07/20/1993
Molly Reed	Assistant Secretary	05/10/1991	01/24/1992
Dale V. Shultz	Assistant Secretary	01/31/1995	
C. Kyle Simpson	Vice President	12/10/1987	06/16/1993

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ANR Coal Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
S. Frank Smith	Vice President	01/08/1993	
James L. Van Lanen	Chief Executive Officer	06/18/1984	
James L. Van Lanen	Director	07/01/1984	
James L. Van Lanen	President	06/18/1984	
Kevin L. Yocum	Assistant Secretary	05/09/1986	12/04/1992
✓ Glen A. Zumwalt	Senior Vice President	07/01/1993	01/31/1996

ANR Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
American Natural Resources Company	Stock Holder 100%	12/31/1978	

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Birmingham Coal Company
P. O. Box 303
Main Street
Birch River, West Virginia 26610
Phone: (304)649-5161 Employer ID. No. 54-1537026

Incorporated: West Virginia 12/29/1989
ANR Coal Company owns 100% of the stock in Birmingham Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/31/1992	
David A. Arledge	Director	01/31/1995	
Donald H. Combs	Director	01/01/1991	08/13/1992
Donald H. Combs	President	12/29/1989	08/13/1992
Stephen D. Combs	Secretary	12/29/1989	08/13/1992
Stephen D. Combs	Treasurer	12/29/1989	08/13/1992
Jeffrey A. Connelly	Director	01/31/1995	
Jeffrey A. Connelly	Treasurer	08/31/1992	01/31/1995
Jeffrey A. Connelly	Vice President	08/31/1992	01/31/1995
James W. Copley, Jr.	Vice President	06/01/1995	
Jay L. Gallia	Assistant Secretary	08/31/1992	01/31/1995
John S. Gennaro	Assistant Secretary	08/31/1992	01/31/1995
Anita Wyatt Gilliam	Director	12/29/1989	12/31/1990
Edward P. Gleichauf	Controller	08/31/1992	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Lowell G. Hess	Director	12/29/1989	12/31/1990
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	08/31/1992	
William S. Hudgins, Jr.	Director	08/31/1992	
William S. Hudgins, Jr.	General Counsel	08/31/1992	
William S. Hudgins, Jr.	Vice President	08/31/1992	
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Paul.K. Moran	Director	08/31/1992	06/01/1995
Paul K. Moran	Vice President	08/31/1992	06/01/1995
Harold R. Natho	Assistant Controller	08/31/1992	
Austin M. O'Toole	Director	08/31/1992	01/31/1995
Austin M. O'Toole	Secretary	08/31/1992	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Dale V. Shultz	Assistant Secretary	01/31/1995	
James L. Van Lanen	Chairman of the Board	01/31/1995	
James L. Van Lanen	Director	08/31/1992	
James L. Van Lanen	President	08/31/1992	
√ Glen A. Zumwalt	Director	07/01/1993	01/31/1996

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Birmingham Coal Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
√ Glen A. Zumwalt	Senior Vice President	07/01/1993	01/31/1996

Birmingham Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
ANR Coal Company	Stock Holder 100%	08/14/1992	

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Brooks Run Coal Company
P. O. Box 303
Main Street
Birch River, West Virginia 26610
Phone: (304)649-5161 Employer ID. No. 38-2174137

Incorporated: Delaware 09/26/1977
Qualified To Do Business: West Virginia 10/28/1977
ANR Coal Company owns 100% of the stock in Brooks Run Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/27/1987	
David A. Arledge	Chairman of the Board	01/31/1995	
David A. Arledge	Director	01/31/1995	
Jeffrey A. Connelly	Director	01/31/1995	
James W. Copley, Jr.	Vice President	07/01/1993	
Duffy G. Cox	Controller	06/09/1982	10/28/1982
James H. Dunn	Treasurer	05/25/1979	06/09/1982
James H. Dunn	Vice President	01/16/1980	06/09/1982
Jay L. Gallia	Assistant Secretary	04/29/1988	01/31/1995
John S. Gennaro	Assistant Secretary	05/05/1989	01/31/1995
Edward P. Gleichauf	Controller	08/27/1987	
Donald H. Gullquist	Senior Vice President	01/31/1995	
John W. Hancock	Chairman of the Board	05/25/1979	05/25/1984
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	09/11/1986	
William S. Hudgins, Jr.	Director	09/11/1986	
William S. Hudgins, Jr.	General Counsel	09/11/1986	
William S. Hudgins, Jr.	Vice President	09/11/1986	
Robert J. Hummel	Director	06/18/1984	09/01/1992
Robert J. Hummel	Vice President	06/18/1984	09/01/1992
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Glenn R. Lowe	Controller	05/25/1979	06/09/1982
Glenn R. Lowe	Treasurer	06/09/1982	09/01/1985
Glenn R. Lowe	Vice President	06/09/1982	09/01/1985
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Harold R. Natho	Assistant Controller	05/09/1986	
Austin M. O'Toole	Director	07/03/1985	01/31/1995
Austin M. O'Toole	Secretary	09/01/1985	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Neil J. Pleasants, Jr.	Director	05/25/1984	06/01/1993
Neil J. Pleasants, Jr.	Senior Vice President	06/18/1984	06/01/1993
Molly Reed	Assistant Secretary	05/05/1989	01/24/1992

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Brooks Run Coal Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Dale V. Shultz	Assistant Secretary	01/31/1995	
S. Frank Smith	Vice President	01/08/1993	
James L. Van Lanen	Director	07/01/1984	
James L. Van Lanen	President	06/18/1984	
Robert H. Warnick, Jr.	Director	06/18/1984	08/01/1991
Robert H. Warnick, Jr.	Executive Vice President	06/18/1984	08/01/1991
Kevin L. Yocum	Assistant Secretary	05/09/1986	12/04/1992
✓ Glen A. Zumwalt	Director	07/01/1993	01/31/1996
✓ Glen A. Zumwalt	Senior Vice President	07/01/1993	01/31/1996

Brooks Run Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
✓ ANR Coal Company	Stock Holder 100%	12/20/1978	

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Clear Creek Fuel Corporation

P. O. Box 990

Lewisburg, West Virginia 24901

Phone: (304)645-6299 Employer ID. No. 52-1108911

Paul K. Moran owned 50% of the stock in Clear Creek Fuel Corporation effective 3/30/1984. He became 100% stock owner effective 3/19/1987. The Coastal Corporation and its coal subsidiaries do not own or control any aspect of Clear Creek Fuel Corporation. The information concerning ownership & control of Clear Creek Fuel Corporation has been provided by Mr. Paul K. Moran and Coastal assumes no responsibility for the accuracy or completeness of this information.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Paul K. Moran	Director	03/30/1984	
Paul K. Moran	President	03/30/1984	
Paul K. Moran	Stock Ownership 50%	03/30/1984	03/19/1987
Paul K. Moran	Stock Ownership 100%	03/19/1987	
Peter K. Moran	Director	03/30/1984	03/19/1987
Peter K. Moran	Stock Ownership 50%	03/30/1984	03/19/1987
Peter K. Moran	Vice President	03/30/1984	03/19/1987

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Coastal Natural Gas Company
9 Greenway Plaza
Houston, Texas 77046
Phone: (713)877-1400

Employer ID. No. 84-0890602

Incorporated: Delaware 04/16/1982

Qualified To Do Business: Texas 07/28/1982

The Coastal Corporation owns 100% of the stock in Coastal Natural Gas Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
David A. Arledge	Director	09/02/1986	
David A. Arledge	Executive Vice President	08/03/1989	11/10/1994
Morris T. Arnold	Assistant Secretary	04/16/1982	11/10/1994
Morris T. Arnold	Vice President	04/16/1982	11/10/1994
Michael L. Beatty	Director	08/09/1985	03/19/1993
Michael L. Beatty	Executive Vice President	08/03/1989	03/19/1993
Harold Burrow	Chairman of the Board	04/16/1982	
Harold Burrow	Chief Executive Officer	04/16/1982	11/10/1994
Harold Burrow	Director	04/16/1982	
Bette B. Carter	Assistant Secretary	09/23/1993	05/04/1995
Pauletta P. Cohn	Assistant Secretary	05/05/1989	07/22/1993
Jeffrey A. Connelly	Treasurer	02/13/1989	11/10/1994
Jeffrey A. Connelly	Vice President	02/13/1989	11/10/1994
James F. Cordes	Chief Executive Officer	11/10/1994	
James F. Cordes	Director	05/09/1986	
James F. Cordes	Executive Vice President	05/09/1986	11/10/1994
James F. Cordes	President	11/10/1994	
Carl A. Corrallo	Director	05/07/1993	
Carl A. Corrallo	General Counsel	11/10/1994	
Carl A. Corrallo	Senior Vice President	05/07/1993	
Donna M. Foos	Assistant Secretary	09/23/1993	11/10/1994

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Coastal Natural Gas Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Jay L. Gallia	Assistant Secretary	05/08/1987	11/10/1994
Sharon F. Gramer	Assistant Secretary	04/16/1982	11/10/1994
Fred D. Gray	Assistant Treasurer	04/16/1982	04/30/1994
Donald H. Gullquist	Senior Vice President	11/10/1994	
Coby C. Hesse	Controllor	09/02/1986	11/10/1994
Coby C. Hesse	Senior Vice President	11/10/1994	
Coby C. Hesse	Vice President	09/02/1986	11/10/1994
Robert G. Holsclaw	Vice President	06/07/1985	04/30/1994
Thomas E. Jackson, Jr.	Vice President	05/05/1989	
Michael B. Lobin	Vice President	04/11/1994	
Ronald D. Matthews	Assistant Treasurer	08/16/1983	11/10/1994
Ronald D. Matthews	Treasurer	11/10/1994	
Ronald D. Matthews	Vice President	11/10/1994	
Roger F. Mechura	Assistant Secretary	11/10/1994	
Austin M. O'Toole	Director	08/09/1985	11/10/1994
Austin M. O'Toole	Secretary	06/28/1984	
Austin M. O'Toole	Senior Vice President	06/28/1984	
Charles M. Oglesby	Vice President	05/10/1991	03/31/1995
James R. Paul	Director	04/16/1982	07/20/1993
James R. Paul	President	09/11/1984	07/20/1993
Molly Reed	Assistant Secretary	05/10/1991	01/24/1992
Sara R. Schafer	Assistant Secretary	09/23/1993	05/04/1995
Dale V. Shultz	Assistant Secretary	04/16/1982	
Kirk W. Weinert	Assistant Secretary	04/16/1982	05/10/1991
Kirk W. Weinert	Vice President	04/16/1982	05/10/1991
James W. Whalen	Vice President	07/24/1986	08/14/1992
Jon R. Whitney	Senior Vice President	06/28/1984	11/10/1994
Oscar S. Wyatt, Jr.	Director	04/16/1982	
Oscar S. Wyatt, Jr.	Vice Chairman of the Board	04/16/1982	

Coastal Natural Gas Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
The Coastal Corporation	Stock Holder 100%	04/16/1982	

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Coastal States Energy Company
175 East, 400 South, Suite 800
Salt Lake City, Utah 84111
Phone: (801)596-7111 Employer ID. No. 74-1734211

Incorporated: Texas 07/07/1972
Qualified To Do Business: Illinois 08/03/78; Kentucky 10/21/1981; Montana 08/04/78;
New Mexico 01/04/78; Utah 12/07/73

The Coastal Corporation owns 100% of the Stock in Coastal States Energy Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/27/1987	
David A. Arledge	Chairman of the Board	04/14/1995	
David A. Arledge	Director	09/02/1986	
David A. Arledge	Senior Exec. Vice President	08/04/1993	04/14/1995
Morris T. Arnold	Vice President	07/19/1972	04/14/1995
Wesley F. Blankenship	Vice President	07/19/1972	08/21/1986
Harold Burrow	Director	12/15/1975	04/14/1995
Jeffrey A. Connelly	Treasurer	12/14/1988	04/14/1995
Jeffrey A. Connelly	Vice President	12/14/1988	04/14/1995
Robert A. Feilner	Director	04/14/1995	
Robert A. Feilner	Senior Vice President	01/08/1993	
Robert A. Feilner	Vice President	10/26/1979	01/08/1993
Jay L. Gallia	Assistant Secretary	05/08/1987	04/14/1995
John S. Gennaro	Assistant Secretary	05/05/1989	04/14/1995
Edward P. Gleichauf	Controller	08/27/1987	
Donald H. Gullquist	Senior Vice President	04/14/1995	
Dow H. Heard	Assistant Secretary	05/05/1989	11/16/1990
Coby C. Hesse	Senior Vice President	04/14/1995	
Coby C. Hesse	Vice President	09/02/1986	04/14/1995
William S. Hudgins, Jr.	Assistant Secretary	12/18/1985	
William S. Hudgins, Jr.	General Counsel	12/18/1985	
William S. Hudgins, Jr.	Vice President	12/18/1985	
Robert J. Hummel	Executive Vice President	12/18/1985	09/01/1992
Thomas E. Jackson, Jr.	Vice President	05/05/1989	
Ronald D. Matthews	Treasurer	04/14/1995	
Ronald D. Matthews	Vice President	04/14/1995	
Jon Bert McElreath	Senior Vice President	12/12/1983	08/13/1986
Vernal J. Mortensen	Director	04/14/1995	
Vernal J. Mortensen	Senior Vice President	03/12/1986	
Harold R. Natho	Assistant Controller	05/17/1976	
Austin M. O'Toole	Director	08/09/1985	04/14/1995
Austin M. O'Toole	Secretary	05/24/1979	
Austin M. O'Toole	Senior Vice President	06/28/1984	
James R. Paul	Chairman of the Board	09/11/1984	07/20/1993

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Coastal States Energy Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
James R. Paul	Chief Executive Officer	09/11/1984	07/20/1993
James R. Paul	Director	05/28/1981	07/20/1993
Robert A. Shaw, Jr.	Assistant Secretary	06/28/1984	
Dale V. Shultz	Assistant Secretary	04/14/1995	
E. C. Simpson	Vice President	05/11/1990	04/30/1995
James L. Van Lanen	Chief Executive Officer	04/14/1995	
James L. Van Lanen	Chief Operating Officer	08/01/1991	04/14/1995
James L. Van Lanen	Director	08/09/1985	
James L. Van Lanen	President	08/01/1991	
Oscar S. Wyatt, Jr.	Director	07/06/1972	04/14/1995
Kevin L. Yocum	Assistant Secretary	05/09/1986	12/04/1992

Coastal States Energy Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
The Coastal Corporation	Stock Holder 100%	01/02/1973	

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Enterprise Coal Company

P. O. Box 244
15489 U.S. 23
Dorton, Kentucky 41520
Phone: (606)639-4323

Employer ID. No. 61-0855798

Incorporated: Kentucky 01/08/1974

ANR Coal Company owns 100% of the stock in Enterprise Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/27/1987	
David A. Arledge	Chairman of the Board	01/31/1995	
David A. Arledge	Director	01/31/1995	
Eugene Brashear	Director	10/14/1985	06/30/1992
Eugene Brashear	Senior Vice President	10/14/1985	06/30/1992
Jeffrey A. Connelly	Director	01/31/1995	
Jay L. Gallia	Assistant Secretary	04/29/1988	05/02/1992
John S. Gennaro	Assistant Secretary	05/05/1989	05/20/1992
Edward P. Gleichauf	Controller	08/27/1987	
Donald H. Gullquist	Senior Vice President	01/31/1995	
John W. Hancock	Chairman of the Board		10/15/1984
John W. Hancock	Director		05/25/1984
John W. Hancock	President		05/25/1984
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	09/01/1985	
William S. Hudgins, Jr.	Director	09/01/1985	
William S. Hudgins, Jr.	General Counsel	09/01/1985	
William S. Hudgins, Jr.	Vice President	09/01/1985	
Robert J. Hummel	Director	06/18/1984	09/01/1992
Robert J. Hummel	Vice President	06/18/1984	09/01/1992
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Bobby Lee Ketron	Director	05/21/1992	
Bobby Lee Ketron	Manager	05/24/1989	05/25/1989
Bobby Lee Ketron	Vice President	05/21/1992	
Glenn R. Lowe	Director	06/09/1982	08/31/1988
Glenn R. Lowe	Treasurer	06/09/1982	09/01/1985
Glenn R. Lowe	Vice President	06/09/1982	08/31/1988
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Harold R. Natho	Assistant Controller	05/09/1986	
Austin M. O'Toole	Director	07/03/1985	01/31/1995
Austin M. O'Toole	Secretary	09/01/1985	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Raymond F. Parker	Director	08/27/1981	08/31/1983
Raymond F. Parker	Vice President	08/27/1981	01/01/1983
Dale V. Shultz	Assistant Secretary	01/31/1995	

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Enterprise Coal Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
S. Frank Smith	Vice President	01/08/1993	
James L. Van Lanen	Director	07/01/1984	
James L. Van Lanen	President	06/18/1984	
Robert H. Warnick, Jr.	Director	06/18/1984	08/01/1991
Robert H. Warnick, Jr.	Executive Vice President	06/18/1984	08/01/1991
Kevin L. Yocum	Assistant Secretary	05/09/1986	12/04/1992
✓ Glen A. Zumwalt	Director	07/01/1993	01/31/1996

Enterprise Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
ANR Coal Company	Stock Holder 100%	02/05/1980	

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Greenbrier Coal Company
P. O. Box 559
Main Street
Birch River, West Virginia 26610
Phone: (304)649-5181 Employer ID. No. 76-0301391

Incorporated: Delaware 02/13/1990
Qualified To Do Business: West Virginia 04/05/1990
ANR Coal Company owns 100% of the stock in Greenbrier Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	02/13/1990	
David A. Arledge	Director	01/31/1995	
Jeffrey A. Connelly	Director	01/31/1995	
Jeffrey A. Connelly	Treasurer	02/13/1990	01/31/1995
Jeffrey A. Connelly	Vice President	02/13/1990	01/31/1995
James W. Copley, Jr.	Vice President	06/01/1995	
Jay L. Gallia	Assistant Secretary	02/13/1990	01/31/1995
John S. Gennaro	Assistant Secretary	02/13/1990	01/31/1995
Edward P. Gleichauf	Controller	02/13/1990	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Dow H. Heard	Assistant Secretary	02/13/1990	11/16/1990
William S. Hudgins, Jr.	Assistant Secretary	02/13/1990	
William S. Hudgins, Jr.	Director	02/13/1990	
William S. Hudgins, Jr.	General Counsel	02/13/1990	
William S. Hudgins, Jr.	Vice President	02/13/1990	
Robert J. Hummel	Director	02/13/1990	09/01/1992
Robert J. Hummel	Vice President	02/13/1990	09/01/1992
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Paul K. Moran	Attorney in Fact	11/15/1990	08/01/1991
Paul K. Moran	Director	08/01/1991	06/01/1995
Paul K. Moran	General Manager	11/15/1990	08/01/1991
Paul K. Moran	Vice President	08/01/1991	06/01/1995
Harold R. Natho	Assistant Controller	02/13/1990	
Austin M. O'Toole	Director	02/13/1990	01/31/1995
Austin M. O'Toole	Secretary	02/13/1990	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Neil J. Pleasants, Jr.	Director	02/13/1990	06/01/1993
Neil J. Pleasants, Jr.	Senior Vice President	02/13/1990	06/01/1993
Dale V. Shultz	Assistant Secretary	01/31/1995	
S. Frank Smith	Vice President	01/08/1993	
James L. Van Lanen	Director	02/13/1990	
James L. Van Lanen	President	02/13/1990	
Robert H. Warnick, Jr.	Director	02/13/1990	08/01/1991

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Greenbrier Coal Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Robert H. Warnick, Jr.	Executive Vice President	02/13/1990	08/01/1991
✓ Glen A. Zumwalt	Director	07/01/1993	01/31/1996
✓ Glen A. Zumwalt	Senior Vice President	07/01/1993	01/31/1996

Greenbrier Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
ANR Coal Company	Stock Holder 100%	02/13/1990	

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Kent Coal Company
P. O. Box 990
Lewisburg, West Virginia 24901
Phone: (304)645-6299 Employer ID. No. 55-0644193

Paul K. Moran owned 50% of the stock in Kent Coal Company effective 9/01/1981. He became 100% stock owner effective 3/19/1987. The Coastal Corporation and its coal subsidiaries do not own or control any aspect of Kent Coal Company. The information concerning ownership & control of Kent Coal Company has been provided by Mr. Paul K. Moran and Coastal assumes no responsibility for the accuracy or completeness of this information.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Paul K. Moran	Director	09/01/1981	
Paul K. Moran	President	03/19/1987	
Paul K. Moran	Stock Ownership 50%	09/01/1981	03/19/1987
Paul K. Moran	Stock Ownership 100%	03/19/1987	
Paul K. Moran	Vice President	09/01/1981	03/19/1987
Peter K. Moran	Director	09/01/1981	03/19/1987
Peter K. Moran	President	09/01/1981	03/19/1987
Peter K. Moran	Stock Ownership 50%	09/01/1981	03/19/1987

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Kingwood Coal Company
84 Albright Road
Kingwood, West Virginia 26537
Phone: (304)329-1212 Employer ID. No. 76-0292683

Incorporated: Delaware 11/30/1989
Qualified To Do Business: West Virginia 01/09/1990
ANR Coal Company owns 100% of the stock in Kingwood Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	11/30/1989	
David A. Arledge	Chairman of the Board	01/31/1995	
David A. Arledge	Director	01/31/1995	
Jeffrey A. Connelly	Director	01/31/1995	
Jeffrey A. Connelly	Treasurer	11/30/1989	01/31/1995
Jeffrey A. Connelly	Vice President	11/30/1989	01/31/1995
James F. Daugherty	Vice President	07/01/1993	
Jay L. Gallia	Assistant Secretary	05/16/1991	01/31/1995
John S. Gennaro	Assistant Secretary	11/30/1989	01/31/1995
Edward P. Gleichauf	Controller	11/30/1989	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Dow H. Heard	Assistant Secretary	11/30/1989	11/16/1990
Coby-C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	11/30/1989	
William S. Hudgins, Jr.	Director	11/30/1989	
William S. Hudgins, Jr.	General Counsel	11/30/1989	
William S. Hudgins, Jr.	Vice President	11/30/1989	
Robert J. Hummel	Director	11/30/1989	09/01/1992
Robert J. Hummel	Vice President	11/30/1989	09/01/1992

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Kingwood Coal Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Harold R. Natho	Assistant Controller	11/30/1989	
Austin M. O'Toole	Director	11/30/1989	01/31/1995
Austin M. O'Toole	Secretary	11/30/1989	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Neil J. Pleasants, Jr.	Director	08/01/1991	06/01/1993
Neil J. Pleasants, Jr.	Senior Vice President	11/30/1989	06/01/1993
Dale V. Shultz	Assistant Secretary	01/31/1995	
S. Frank Smith	Vice President	01/08/1993	
James L. Van Lanen	Director	11/30/1989	
James L. Van Lanen	President	11/30/1989	
James L. Van Lanen	Vice Chairman of the Board	01/31/1995	
Robert H. Warnick, Jr.	Director	11/30/1989	08/01/1991
Robert H. Warnick, Jr.	Executive Vice President	11/30/1989	08/01/1991
✓ Glen A. Zumwalt	Director	07/01/1993	01/31/1996
✓ Glen A. Zumwalt	Senior Vice President	07/01/1993	01/31/1996

Kingwood Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
ANR Coal Company	Stock Holder 100%	11/30/1989	

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Sage Point Coal Company
175 East, 400 South, Suite 800
Salt Lake City, Utah 84111
Phone: (801)596-7111 Employer ID. No. 23-2376895

Incorporated: Delaware 11/12/1985
Qualified To Do Business: Utah 01/08/1986
Coastal States Energy Company owns 100% of the stock in Sage Point Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Jack H. Allison	Treasurer	11/11/1985	09/15/1993
Donald J. Appleman	Vice President	09/15/1993	
David A. Arledge	Chairman of the Board	01/31/1995	
David A. Arledge	Director	09/15/1993	
David A. Arledge	Senior Exec. Vice President	09/15/1993	01/31/1995
J. E. Braby	Assistant Secretary	11/11/1985	09/15/1993
J. E. Braby	Assistant Treasurer	05/15/1987	09/15/1993
Jeffrey A. Connelly	Director	01/31/1995	
Jeffrey A. Connelly	Treasurer	09/15/1993	01/31/1995
Jeffrey A. Connelly	Vice President	09/15/1993	01/31/1995
Robert A. Feilner	Director	09/15/1993	
Robert A. Feilner	Vice President	09/15/1993	
Jay L. Gallia	Assistant Secretary	09/15/1993	01/31/1995
John S. Gennaro	Assistant Secretary	09/15/1993	01/31/1995
Edward P. Gleichauf	Controller	09/15/1993	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	09/15/1993	
William S. Hudgins, Jr.	General Counsel	09/15/1993	
William S. Hudgins, Jr.	Vice President	09/15/1993	
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Bruce H. Luttrell	Assistant Treasurer	12/03/1991	09/15/1993
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Vernal J. Mortensen	Director	09/15/1993	
Vernal J. Mortensen	Executive Vice President	09/15/1993	
Harold R. Natho	Assistant Controller	09/15/1993	
Austin M. O'Toole	Director	09/15/1993	01/31/1995
Austin M. O'Toole	Secretary	09/15/1993	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Austin M. O'Toole	Vice President	09/15/1993	01/31/1995
Reid W. Olsen	President	01/02/1987	09/15/1993
Reid W. Olsen	Vice President	09/15/1993	
Kenneth A. Ritchie	Secretary	11/11/1985	09/15/1993
Robert A. Shaw, Jr.	Assistant Secretary	09/15/1993	01/31/1995

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Sage Point Coal Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Dale V. Shultz	Assistant Secretary	01/31/1995	
E. C. Simpson	Vice President	09/15/1993	04/30/1995
James L. Van Lanen	Director	09/15/1993	
James L. Van Lanen	President	09/15/1993	
James L. Van Lanen	Vice Chairman of the Board	01/31/1995	
Dale N. Walker	Director	12/03/1991	09/15/1993
Merle D. Wolfe	Director	05/15/1987	09/15/1993

Sage Point Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
Coastal States Energy Company	Stock Holder 100%	09/15/1993	

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Skyline Coal Company
175 East, 400 South, Suite 800
Salt Lake City, Utah 84111
Phone: (801)596-7111 Employer ID. No. 73-0932452

Incorporated: Delaware 07/28/1971
Qualified To Do Business: Utah 08/14/1992 (Requalified)
Coastal States Energy Company owns 100% of the stock in Skyline Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/27/1987	
David A. Arledge	Chairman of the Board	01/31/1995	
David A. Arledge	Director	01/31/1995	
David A. Arledge	Senior Exec. Vice president	08/04/1993	01/31/1995
Jeffrey A. Connelly	Director	01/31/1995	
Robert A. Feilner	Vice President	10/30/1985	
Jay L. Gallia	Assistant Secretary	05/08/1987	01/31/1995
John S. Gennaro	Assistant Secretary	05/05/1989	01/31/1995
Edward P. Gleichauf	Controller	08/27/1987	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Coby C. Hesse	Director	01/31/1995	
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	10/30/1985	
William S. Hudgins, Jr.	General Counsel	10/30/1985	
William S. Hudgins, Jr.	Vice President	10/30/1985	
Robert J. Hummel	Director	10/30/1985	09/01/1992
Robert J. Hummel	Senior Vice President	10/30/1985	09/01/1992
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Vernal J. Mortensen	Director	04/29/1988	
Vernal J. Mortensen	Executive Vice President	10/30/1985	
Harold R. Natho	Assistant Controller	05/09/1986	
Austin M. O'Toole	Director	10/30/1985	01/31/1995
Austin M. O'Toole	Secretary	10/30/1985	
Austin M. O'Toole	Senior Vice President	01/31/1995	
James R. Paul	Chairman of the Board	10/30/1985	07/20/1993
James R. Paul	Director	10/30/1985	07/20/1993
Kenneth M. Payne	Vice President	07/01/1993	
Robert A. Shaw, Jr.	Assistant Secretary	10/02/1987	
Dale V. Shultz	Assistant Secretary	01/31/1995	
E. C. Simpson	Vice President	05/11/1990	04/30/1995
James L. Van Lanen	Chief Executive Officer	10/30/1985	
James L. Van Lanen	Director	10/30/1985	
James L. Van Lanen	President	10/30/1985	

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Skyline Coal Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
James L. Van Lanen	Vice Chairman of the Board	01/31/1995	
Kevin L. Yocum	Assistant Secretary	05/09/1986	12/04/1992
Glen A. Zumwalt	Vice President	10/30/1985	07/01/1993

Skyline Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
Coastal States Energy Company	Stock Holder 100%	10/30/1985	

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Soldier Creek Coal Company
175 East, 400 South, Suite 800
Salt Lake City, Utah 84111
Phone: (801)596-7111 Employer ID. No. 23-2360574

Incorporated: Delaware 07/18/1985
Qualified To Do Business: Utah 08/21/1985
Sage Point Coal Company has owned 100% of the stock in Soldier Creek Coal Company since 11/12/1985. Effective 9/15/1993, Coastal States Energy Company acquired 100% of the stock in Sage Point Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Jack H. Allison	Treasurer	09/24/1985	09/15/1993
Donald J. Appleman	Vice President	09/15/1993	
David A. Arledge	Chairman of the Board	01/31/1995	
David A. Arledge	Director	09/15/1993	
David A. Arledge	Senior Exec. Vice President	09/15/1993	01/31/1995
J. E. Braby	Assistant Secretary	09/24/1985	09/15/1993
J. E. Braby	Assistant Treasurer	05/15/1987	09/15/1993
J. D. Brown	Vice President	09/24/1985	07/31/1989
Jeffrey A. Connelly	Director	01/31/1995	
Jeffrey A. Connelly	Treasurer	09/15/1993	01/31/1995
Jeffrey A. Connelly	Vice President	09/15/1993	01/31/1995
Robert A. Feilner	Director	09/15/1993	
Robert A. Feilner	Vice President	09/15/1993	
Jay L. Gallia	Assistant Secretary	09/15/1993	01/31/1995
John S. Gennaro	Assistant Secretary	09/15/1993	01/31/1995
Edward P. Gleichauf	Controller	09/15/1993	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	09/15/1993	
William S. Hudgins, Jr.	General Counsel	09/15/1993	
William S. Hudgins, Jr.	Vice President	09/15/1993	
Richard W. Ince	Director	05/15/1987	02/01/1990
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Bruce H. Luttrell	Assistant Treasurer	05/15/1991	09/15/1993
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Vernal J. Mortensen	Director	09/15/1993	
Vernal J. Mortensen	Executive Vice President	09/15/1993	
Harold R. Natho	Assistant Controller	09/15/1993	
Austin M. O'Toole	Director	09/15/1993	01/31/1995
Austin M. O'Toole	Secretary	09/15/1993	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Austin M. O'Toole	Vice President	09/15/1993	01/31/1995
Reid W. Olsen	President	01/02/1987	09/15/1993

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Soldier Creek Coal Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Reid W. Olsen	Vice President	09/15/1993	
Kenneth A. Ritchie	Secretary	09/24/1985	09/15/1993
Robert A. Shaw, Jr.	Assistant Secretary	09/15/1993	
Dale V. Shultz	Assistant Secretary	01/31/1995	
E. C. Simpson	Vice President	09/15/1993	04/30/1995
James L. Van Lanen	Director	09/15/1993	
James L. Van Lanen	President	09/15/1993	
James L. Van Lanen	Vice Chairman of the Board	01/31/1995	
Dale N. Walker	Director	05/15/1991	09/15/1993
Merle D. Wolfe	Director	05/15/1987	09/15/1993

Soldier Creek Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
Sage Point Coal Company	Stock Holder 100%	11/12/1985	

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Southern Utah Fuel Company
175 East, 400 South, Suite 800
Salt Lake City, Utah 84111
Phone: (801)596-7111 Employer ID. No. 74-2010288

Incorporated: Delaware 04/14/1976
Qualified To Do Business: Utah 01/05/1979
Coastal States Energy Company owns 100% of the stock in Southern Utah Fuel Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/27/1987	
David A. Arledge	Chairman of the Board	01/31/1995	
David A. Arledge	Director	06/06/1985	
David A. Arledge	Executive Vice President	08/03/1989	08/04/1993
David A. Arledge	Senior Exec. Vice President	08/04/1993	01/31/1995
Pauletta P. Cohn	Assistant Secretary	05/05/1989	05/08/1992
Jeffrey A. Connelly	Director	01/31/1995	
Jeffrey A. Connelly	Treasurer	12/14/1988	01/31/1995
Jeffrey A. Connelly	Vice President	12/14/1988	01/31/1995
Robert A. Feilner	Vice President	10/26/1979	
Jay L. Gallia	Assistant Secretary	05/08/1987	01/31/1995
John S. Gennaro	Assistant Secretary	05/05/1989	05/07/1993
Edward P. Gleichauf	Controller	08/27/1987	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Coby C. Hesse	Director	01/31/1995	
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	12/18/1985	
William S. Hudgins, Jr.	General Counsel	12/18/1985	
William S. Hudgins, Jr.	Vice President	12/18/1985	
Robert J. Hummel	Senior Vice President	12/18/1985	09/01/1992
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Lauren W. Jones	Assistant Secretary	05/08/1992	01/31/1995
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Kenneth E. May	Assistant Vice President	07/01/1993	
Kenneth E. May	General Manager	07/01/1993	
Vernal J. Mortensen	Director	11/18/1985	
Vernal J. Mortensen	Executive Vice President	12/18/1985	
Harold R. Natho	Assistant Controller	05/09/1986	
Austin M. O'Toole	Director	06/06/1985	01/31/1995
Austin M. O'Toole	Secretary	05/24/1979	
Austin M. O'Toole	Senior Vice President	01/31/1995	
James R. Paul	Chairman of the Board	09/11/1984	07/20/1993
James R. Paul	Director	09/11/1984	07/20/1993
Kenneth M. Payne	Vice President	05/14/1982	

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Southern Utah Fuel Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Robert A. Shaw, Jr.	Assistant Secretary	10/02/1987	
Dale V. Shultz	Assistant Secretary	01/31/1995	
E. C. Simpson	Vice President	05/11/1990	04/30/1995
James L. Van Lanen	Chief Executive Officer	12/18/1985	
James L. Van Lanen	Director	11/18/1985	
James L. Van Lanen	President	12/18/1985	
James L. Van Lanen	Vice Chairman of the Board	01/31/1995	
Kevin L. Yocum	Assistant Secretary	05/09/1986	12/04/1992

Southern Utah Fuel Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
Coastal States Energy Company	Stock Holder 100%	12/28/1973	

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The Coastal Corporation
9 Greenway Plaza
Houston, Texas 77046
Phone: (713)877-1400

Employer ID. No. 74-1734212

Incorporated: Delaware 09/07/1972; Restated 03/22/1994

Qualified To Do Business: Texas 10/16/1972

The Employee Thrift, 01/63; ESOP, 10/76; and Pension, 07/83 collectively owns 15.2% of The Coastal Corporation's stock. The Coastal Corporation is a publicly-held stock company, and 15.2% of The Coastal Corporation's stock is owned by the aforementioned employees' plans. No other individual/entity owns/controls 10%, or more, of The Coastal Corporation stock other than Oscar S. Wyatt, Jr. who owns 12.4% of The Coastal Corporation stock with a beginning date of ownership of September 7, 1972.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
David A. Arledge	Chief Executive Officer	10/05/1995	
David A. Arledge	Chief Operating Officer	07/20/1993	
David A. Arledge	Director	02/04/1988	
David A. Arledge	Executive Vice President	08/03/1989	08/04/1993
David A. Arledge	President	03/03/1994	
David A. Arledge	Senior Exec. Vice President	08/04/1993	03/03/1994
Morris T. Arnold	Vice President	08/10/1993	
Michael L. Beatty	Director	02/04/1988	03/19/1993
Michael L. Beatty	Executive Vice President	08/03/1989	03/19/1993
Michael L. Beatty	General Counsel	07/15/1985	03/19/1993
John M. Bissell	Director	04/10/1985	
George Brundrett, Jr.	Director	06/12/1973	
Ervin O. Buck	Director	10/02/1973	08/11/1994
Jerry D. Bullock	Senior Vice President	08/01/1992	
Harold Burrow	Director	10/02/1973	
Roy D. Chapin, Jr.	Director	04/07/1988	
Pauletta P. Cohn	Assistant Secretary	05/04/1989	07/22/1993
Daniel F. Collins	Vice President	01/15/1989	
John B. Connally	Director	02/04/1988	06/15/1993
Jeffrey A. Connelly	Senior Vice President	03/03/1994	
Jeffrey A. Connelly	Treasurer	09/16/1988	09/15/1994
Jeffrey A. Connelly	Vice President	09/16/1988	03/03/1994
James F. Cordes	Director	04/10/1985	
James F. Cordes	Executive Vice President	02/04/1986	
Carl A. Corrallo	General Counsel	03/23/1993	
Carl A. Corrallo	Senior Vice President	03/23/1993	
✓ Daniel J. Daly, Jr.	Assistant Controller	12/15/1995	
✓ James W. French	Assistant Controller	09/12/1980	12/15/1995
Jay L. Gallia	Assistant Secretary	04/28/1988	
Roy L. Gates	Director	09/07/1972	
John S. Gennaro	Assistant Secretary	05/04/1989	

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The Coastal Corporation (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Fred D. Gray	Assistant Treasurer	05/06/1976	04/29/1994
Donald H. Gullquist	Senior Vice President	03/16/1994	
Fred H. Hallman	Assistant Controller	09/12/1980	
Robert C. Hart	Vice President	03/16/1994	
Coby C. Hesse	Controller	08/13/1986	
Coby C. Hesse	Senior Vice President	03/03/1994	
Coby C. Hesse	Vice President	08/13/1986	03/03/1994
Dan J. Hill	Senior Vice President	05/10/1979	
Robert G. Holsclaw	Vice President	08/04/1983	04/29/1994
Jose J. Iglesias	Senior Vice President	01/31/1992	02/11/1995
Kenneth O. Johnson	Director	02/04/1988	
Kenneth O. Johnson	Senior Vice President	02/22/1978	
Dennis F. Juren	Director	05/15/1989	01/02/1992
Dennis F. Juren	Executive Vice President	05/15/1989	01/02/1992
Jerome S. Katzin	Director	11/04/1983	
James A. King	Executive Vice President	05/12/1992	
James W. Knowles	Assistant Controller	05/08/1986	03/31/1995
John J. Lipinski	Vice President	03/02/1995	
J. Howard Marshall II	Director	09/07/1973	05/04/1995
Ronald D. Matthews	Assistant Treasurer	08/04/1983	09/15/1994
Ronald D. Matthews	Treasurer	09/15/1994	
Thomas R. McDade	Director	02/04/1993	
Roger F. Mechura	Assistant Treasurer	10/13/1994	
Edward A. Moré	Vice President	03/02/1995	
Edward J. Mosher	Director	10/02/1973	01/08/1994
Robert E. Moss	Vice President	07/15/1985	09/30/1993
Harold R. Natho	Assistant Controller	04/06/1978	
Austin M. O'Toole	General Counsel	05/03/1984	01/27/1993
Austin M. O'Toole	Secretary	05/03/1984	
Austin M. O'Toole	Senior Vice President	05/03/1984	
Charles M. Oglesby	Vice President	08/09/1991	03/31/1995
James R. Paul	Chief Executive Officer	09/11/1984	07/20/1993
James R. Paul	Director	05/27/1981	07/20/1993
James R. Paul	President	09/11/1984	07/20/1993
Jack C. Pester	Senior Vice President	04/01/1987	
M. Frank Powell	Vice President	08/04/1993	

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The Coastal Corporation (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
James M. Rauch	Assistant Treasurer	12/17/1991	
Molly Reed	Assistant Secretary	05/04/1989	01/24/1992
Robert A. Shaw, Jr.	Assistant Secretary	05/10/1989	
Dale V. Shultz	Assistant Secretary	08/09/1978	
E. C. Simpson	Vice President	04/05/1990	04/30/1995
Walter E. Spencer	Senior Vice President	05/12/1983	07/17/1992
James L. Van Lanen	Senior Vice President	08/08/1985	
Thomas M. Wade	Vice President	03/02/1995	
Kirk W. Weinert	Assistant Secretary	05/10/1977	
James W. Whalen	Vice President	07/09/1986	08/14/1992
Sam F. Willson, Jr.	Executive Vice President	03/03/1994	
Sam F. Willson, Jr.	Senior Vice President	05/08/1975	03/03/1994
Lemuel Dale Wooddy, Jr.	Director	05/12/1992	
Oscar S. Wyatt, Jr.	Chairman of the Board	09/07/1972	
Oscar S. Wyatt, Jr.	Chief Executive Officer	07/20/1993	10/05/1995
Oscar S. Wyatt, Jr.	Director	09/07/1972	
Oscar S. Wyatt, Jr.	Stock Ownership 12.4%	09/07/1972	

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Utah Fuel Company
175 East, 400 South, Suite 800
Salt Lake City, Utah 84111
Phone: (801)596-7111 Employer ID. No. 74-2010721

Incorporated: Delaware 12/13/1978
Qualified To Do Business: Texas 01/02/1979; Utah 01/06/1979
Coastal States Energy Company owns 100% of the stock in Utah Fuel Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/27/1987	
David A. Arledge	Director	01/31/1995	
David A. Arledge	Senior Exec. Vice President	08/04/1993	01/31/1995
Pauletta P. Cohn	Assistant Secretary	05/05/1989	05/08/1992
Jeffrey A. Connelly	Director	01/31/1995	
Jeffrey A. Connelly	Treasurer	05/05/1989	01/31/1995
Jeffrey A. Connelly	Vice President	05/05/1989	01/31/1995
Robert A. Feilner	Vice President	10/26/1979	
Jay L. Gallia	Assistant Secretary	04/29/1988	01/31/1995
Edward P. Gleichauf	Controller	08/27/1987	
Donald H. Gullquist	Senior Vice President	01/31/1995	

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Utah Fuel Company (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Coby C. Hesse	Director	01/31/1995	
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	12/18/1985	
William S. Hudgins, Jr.	General Counsel	12/18/1985	
William S. Hudgins, Jr.	Vice President	12/18/1985	
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Lauren W. Jones	Assistant Secretary	05/08/1992	01/31/1995
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Vernal J. Mortensen	Director	05/09/1986	
Vernal J. Mortensen	Executive Vice President	12/18/1985	
Harold R. Natho	Assistant Controller	05/09/1986	
Austin M. O'Toole	Director	06/06/1985	01/31/1995
Austin M. O'Toole	Secretary	05/24/1979	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Kenneth M. Payne	Vice President	07/01/1993	
Molly Reed	Assistant Secretary	05/05/1989	01/24/1992
Dale V. Shultz	Assistant Secretary	01/31/1995	
E. C. Simpson	Vice President	05/11/1990	04/30/1995
James L. Van Lanen	Chief Executive Officer	12/18/1985	
James L. Van Lanen	Director	12/18/1985	
James L. Van Lanen	President	12/18/1985	
Kevin L. Yocum	Assistant Secretary	05/09/1986	12/04/1992
Glen A. Zumwalt	Vice President	05/01/1981	07/01/1993

Utah Fuel Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
Coastal States Energy Company	Stock Holder 100%	12/13/1978	

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Virginia City Coal Company
P. O. Box 1578
1014 Laurel Avenue
Coeburn, Virginia 24230-1578
Phone: (540)395-3316 Employer ID. No. 54-1262278

Incorporated: Delaware 02/15/1983
Qualified To Do Business: Virginia 03/22/1983
ANR Coal Company owns 100% of the stock in Virginia City Coal Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/27/1987	
David A. Arledge	Director	01/31/1995	
Jeffrey A. Connelly	Director	01/31/1995	
Jay L. Gallia	Assistant Secretary	05/08/1987	01/31/1995
John S. Gennaro	Assistant Secretary	05/10/1991	01/31/1995
Edward P. Gleichauf	Controller	08/27/1987	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Dow H. Heard	Assistant Secretary	05/05/1989	11/16/1990
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	09/01/1985	
William S. Hudgins, Jr.	Director	02/15/1983	
William S. Hudgins, Jr.	General Counsel	02/15/1983	
William S. Hudgins, Jr.	Vice President	05/14/1984	
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Glenn R. Lowe	Vice President	02/15/1983	07/25/1990
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Harold R. Natho	Assistant Controller	05/09/1986	
Austin M. O'Toole	Director	07/03/1985	01/31/1995
Austin M. O'Toole	Secretary	09/01/1985	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Rodney G. Poindexter	Director	10/14/1985	
Rodney G. Poindexter	Vice President	10/14/1985	
Dale V. Shultz	Assistant Secretary	01/31/1995	
James L. Van Lanen	Director	07/01/1984	
James L. Van Lanen	President	06/18/1984	
Robert H. Warnick, Jr.	Director	05/25/1984	08/01/1991
Robert H. Warnick, Jr.	Executive Vice President	06/18/1984	08/01/1991
Kevin L. Yocum	Assistant Secretary	05/09/1986	12/04/1992

Virginia City Coal Company (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
ANR Coal Company	Stock Holder 100%	02/15/1983	

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Virginia Iron, Coal & Coke Co.

P. O. Box 1578

1014 Laurel Avenue

Coeburn, Virginia 24230-1578

Phone: (540)395-3316

Employer ID. No. 38-2240920

Incorporated: Delaware 12/13/1978

Qualified To Do Business: Virginia 05/30/1979

ANR Coal Company owns 100% of the stock in Virginia Iron, Coal & Coke Company.

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Donald J. Appleman	Vice President	08/27/1987	
David A. Arledge	Director	01/31/1995	
Eugene Brashear	Vice President	05/25/1979	01/16/1980
Hugh C. Daly	Chairman of the Board	12/13/1978	06/30/1982
Raymond E. Davis	Secretary	11/20/1979	10/28/1982
James H. Dunn	Vice President	01/16/1980	06/09/1982
Jay L. Gallia	Assistant Secretary	04/29/1988	01/31/1995
John S. Gennaro	Assistant Secretary	05/05/1989	01/31/1995
Edward P. Gleichauf	Controller	08/27/1987	
Donald H. Gullquist	Senior Vice President	01/31/1995	
Dow H. Heard	Assistant Secretary	05/05/1989	11/16/1990
Coby C. Hesse	Senior Vice President	01/31/1995	
William S. Hudgins, Jr.	Assistant Secretary	09/11/1986	
William S. Hudgins, Jr.	Director	09/11/1986	
William S. Hudgins, Jr.	General Counsel	09/11/1986	
William S. Hudgins, Jr.	Vice President	09/11/1986	
Robert J. Hummel	Director	06/18/1984	09/01/1992
Robert J. Hummel	Vice President	06/18/1984	09/01/1992
Thomas E. Jackson, Jr.	Vice President	01/31/1995	
Daniel E. Lebo, Jr.	Director	05/14/1980	07/17/1981
Glenn R. Lowe	Director	06/09/1982	10/14/1985
Glenn R. Lowe	Vice President	06/09/1982	01/29/1988
Ronald D. Matthews	Treasurer	01/31/1995	
Ronald D. Matthews	Vice President	01/31/1995	
Joyce J. Moorman	Assistant Controller	05/09/1986	05/08/1987
Harold R. Natho	Assistant Controller	05/09/1986	
Austin M. O'Toole	Director	07/03/1985	01/31/1995
Austin M. O'Toole	Secretary	09/01/1985	
Austin M. O'Toole	Senior Vice President	01/31/1995	
Rodney G. Poindexter	Director	10/14/1985	
Rodney G. Poindexter	Vice President	10/14/1985	
Arthur R. Seder	Director	12/13/1978	05/25/1979

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Virginia Iron, Coal & Coke Co. (Continued)

<u>Officer</u>	<u>Title</u>	<u>Begin Date</u>	<u>End Date</u>
Thomas Sexton	President	05/25/1979	05/14/1980
Dale V. Shultz	Assistant Secretary	01/31/1995	
S. Frank Smith	Vice President	05/14/1980	06/09/1982
S. Frank Smith	Vice President	01/08/1993	
Kinnie S. Smith, Jr.	Director	12/13/1978	05/25/1979
James L. Van Lanen	Director	07/01/1984	
James L. Van Lanen	President	06/18/1984	
Robert H. Warnick, Jr.	Director	05/25/1984	08/01/1991
Robert H. Warnick, Jr.	Executive Vice President	06/18/1984	08/01/1991
Kevin L. Yocum	Assistant Secretary	05/09/1986	12/04/1992
√ Glen A. Zumwalt	Director	07/01/1993	01/31/1996

Virginia Iron, Coal & Coke Co. (Continued)

<u>Owner Name</u>	<u>Ownership Type</u>	<u>Begin Date</u>	<u>End Date</u>
ANR Coal Company	Stock Holder 100%	05/25/1979	