

- LEGEND**
- MINE PERMIT BOUNDARY
 - SUBSIDENCE CONTROL PLAN BOUNDARY
 - YEAR 1
 - YEAR 2
 - YEAR 3
 - YEAR 4
 - YEAR 5
 - YEAR 6
 - YEAR 7
 - YEAR 8
 - YEAR 9
 - YEAR 10
 - 50% MINING AREA (IF EXTRACTION ONLY) LESS THAN 100% COVER
 - PROPERTY BOUNDARY
 - EXIST SURFACE MINES - VIEW NOS. TO OPERATIONS
 - PLAN - MINE WORKINGS
 - COAL BANKS - NO MINING AREAS WITHIN PERMIT BOUNDARY
 - VARIANCE AREA
 - PERIMETER BARRIERS OUTSIDE PERMIT AREA
 - SURFACE SUPPORT AREA TO BE BOUNDED

NOTE:
 LINE PROJECTIONS SHOW THE GENERAL ORIENTATION OF ENTRIES. THE ACTUAL NUMBER OF ENTRIES MINED MAY BE MORE OR LESS THAN SHOWN BASED ON GROUND CONDITIONS AND COAL PRODUCTION ORGANIZATION.

- KEY TO ABBREVIATIONS:**
- D - DWELLING
 - B - BARN
 - M - MILL
 - T - TOWER
 - A - ABANDONED
 - ★ - STRUCTURES PER 1964 STRUCTURE

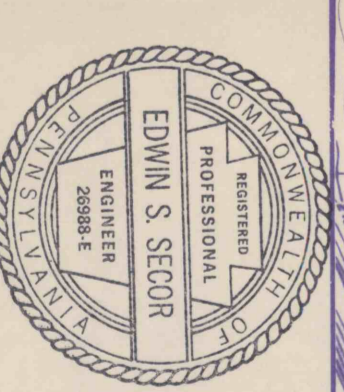
- SURFACE /SUBSURFACE OWNERSHIP**
- | | | | |
|------------------------------|------------------------------|------------------------------|------------------------------|
| 1. K & J COAL CO., INC. | 11. LEON LECHENE | 21. JACOB LEIDEN ESTATE | 31. ROBERT J. LINK |
| 2. DAVID ORZ | 12. MRS DENNIS JOHNSON | 22. JOSEPH D. DAVIS | 22. ROBERT J. LINK |
| 3. MICHAEL LINK | 13. HENRY R. LEIDEN | 23. JOSEPH F. LEIDEN | 23. ROBERT J. LINK |
| 4. DONALD HOLZ | 14. JOSEPH A. LONG | 24. ST. LAWRENCE CHURCH | 24. ROBERT J. LINK |
| 5. JOSEPH E. LACUE | 15. JOSEPH A. LONG | 25. VIOLLET LEIDEN | 25. ROBERT J. LINK |
| 6. DENNIS JOHNSON, W/S | 16. JOSEPH A. LONG | 26. HOWARD SWORD JR | 26. ROBERT J. LINK |
| 7. RICHARD KUTRUFF | 17. CLEMENS B. HOLTZ | 27. GADY MIALOW | 27. ROBERT J. LINK |
| 8. DONALD HOLZ | 18. JOSEPH A. LONG | 28. GADY MIALOW | 28. ROBERT J. LINK |
| 9. RICHARD KUTRUFF | 19. CLEMENS B. HOLTZ | 29. GADY MIALOW | 29. ROBERT J. LINK |
| 10. LEON LECHENE | 20. JACOB LEIDEN ESTATE | 30. CHEST TWP SUPERVISORS | 30. ROBERT J. LINK |
| 11. LEON LECHENE | 21. JACOB LEIDEN ESTATE | 31. ROBERT J. LINK | 31. ROBERT J. LINK |
| 12. MRS DENNIS JOHNSON | 22. JOSEPH D. DAVIS | 32. ROBERT J. LINK | 32. ROBERT J. LINK |
| 13. HENRY R. LEIDEN | 23. JOSEPH F. LEIDEN | 33. JEROME R. KUTRUFF | 33. JEROME R. KUTRUFF |
| 14. JOSEPH A. LONG | 24. ST. LAWRENCE CHURCH | 34. ST. LAWRENCE CHURCH HALL | 34. ST. LAWRENCE CHURCH HALL |
| 15. JOSEPH A. LONG | 25. VIOLLET LEIDEN | 35. DAVID M. FERGUSON | 35. DAVID M. FERGUSON |
| 16. JOSEPH A. LONG | 26. HOWARD SWORD JR | 36. JOSEPH LEIDEN | 36. JOSEPH LEIDEN |
| 17. CLEMENS B. HOLTZ | 27. GADY MIALOW | 37. MICHAEL FERGUSON | 37. MICHAEL FERGUSON |
| 18. JOSEPH A. LONG | 28. GADY MIALOW | 38. A&C ASSOCIATES | 38. A&C ASSOCIATES |
| 19. CLEMENS B. HOLTZ | 29. GADY MIALOW | 39. RAY CONAUVER | 39. RAY CONAUVER |
| 20. JACOB LEIDEN ESTATE | 30. CHEST TWP SUPERVISORS | 40. ROBERT LEIDEN | 40. ROBERT LEIDEN |
| 21. JACOB LEIDEN ESTATE | 31. ROBERT J. LINK | 41. A&C ASSOCIATES | 41. A&C ASSOCIATES |
| 22. JOSEPH D. DAVIS | 32. ROBERT J. LINK | 42. RAY CONAUVER | 42. RAY CONAUVER |
| 23. JOSEPH F. LEIDEN | 33. JEROME R. KUTRUFF | 43. MICHAEL FERGUSON | 43. MICHAEL FERGUSON |
| 24. ST. LAWRENCE CHURCH | 34. ST. LAWRENCE CHURCH HALL | 44. ADRIAN CONAUVER | 44. ADRIAN CONAUVER |
| 25. VIOLLET LEIDEN | 35. DAVID M. FERGUSON | 45. JOHN E. LINK | 45. JOHN E. LINK |
| 26. HOWARD SWORD JR | 36. JOSEPH LEIDEN | 46. JOHN E. LINK | 46. JOHN E. LINK |
| 27. GADY MIALOW | 37. MICHAEL FERGUSON | 47. K & J COAL CO., INC. | 47. K & J COAL CO., INC. |
| 28. GADY MIALOW | 38. A&C ASSOCIATES | 48. K & J COAL CO., INC. | 48. K & J COAL CO., INC. |
| 29. GADY MIALOW | 39. RAY CONAUVER | 49. K & J COAL CO., INC. | 49. K & J COAL CO., INC. |
| 30. CHEST TWP SUPERVISORS | 40. ROBERT LEIDEN | 50. K & J COAL CO., INC. | 50. K & J COAL CO., INC. |
| 31. ROBERT J. LINK | 41. A&C ASSOCIATES | 51. PAUL NOVATELLA | 51. PAUL NOVATELLA |
| 32. ROBERT J. LINK | 42. RAY CONAUVER | 52. DON J. BECKER | 52. DON J. BECKER |
| 33. JEROME R. KUTRUFF | 43. MICHAEL FERGUSON | 53. DENNIS T. MENDLEY | 53. DENNIS T. MENDLEY |
| 34. ST. LAWRENCE CHURCH HALL | 44. ADRIAN CONAUVER | | |
| 35. DAVID M. FERGUSON | 45. JOHN E. LINK | | |
| 36. JOSEPH LEIDEN | 46. JOHN E. LINK | | |
| 37. MICHAEL FERGUSON | 47. K & J COAL CO., INC. | | |
| 38. A&C ASSOCIATES | 48. K & J COAL CO., INC. | | |
| 39. RAY CONAUVER | 49. K & J COAL CO., INC. | | |
| 40. ROBERT LEIDEN | 50. K & J COAL CO., INC. | | |
| 41. A&C ASSOCIATES | 51. PAUL NOVATELLA | | |
| 42. RAY CONAUVER | 52. DON J. BECKER | | |
| 43. MICHAEL FERGUSON | 53. DENNIS T. MENDLEY | | |

EXHIBIT 193
SUBSIDENCE CONTROL PLAN

RED OAK MINING COMPANY
 SOUTH MINE
 UPPER RETAINING SEAM
 CMAP # 11851302
 TOWNSHIP CAMBRIA COUNTY
 PENNSYLVANIA

MINETECH ENGINEERS
 ALTOONA, PENNSYLVANIA

DATE: 10/26/84



Edwin S. Seiden