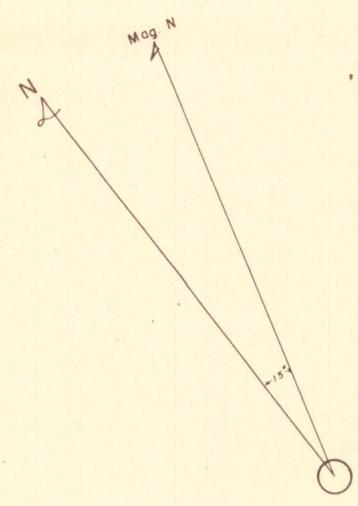
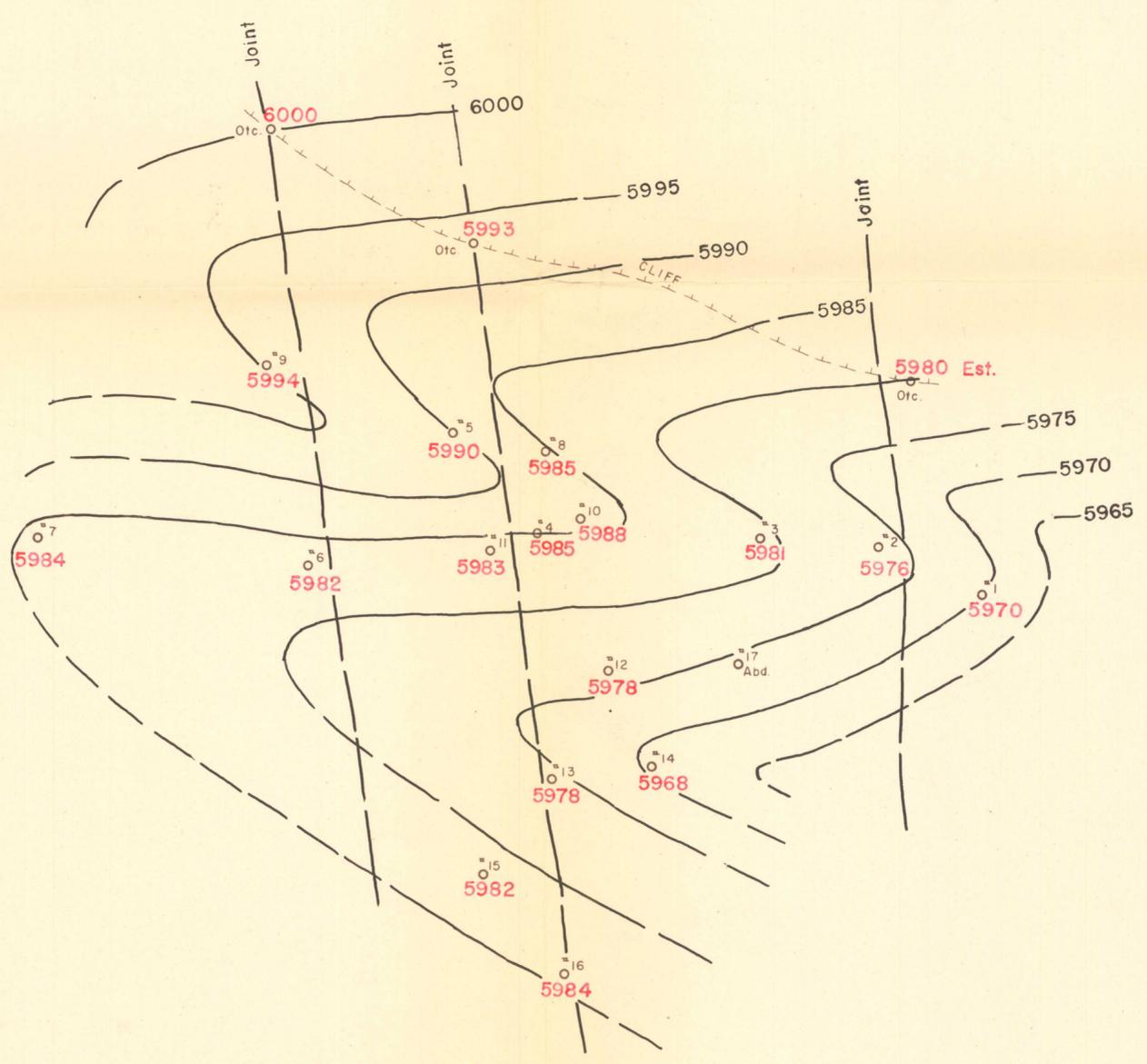


6044
Otc.



TRIPP GULCH →



STRUCTURAL CONTOUR MAP
DATUM: TOP ORE ZONE
C. I. = 5'

D. HAROLD BYRD
THOMPSON-ALDRIDGE PROJECT
LA PLATA COUNTY, COLORADO
SCALE: 1"=50'

OSTERHOUDT & BROWN:
S. C. Brown
W. J. Osterhoudt

Durango, Colorado
Sept. 27, 1954

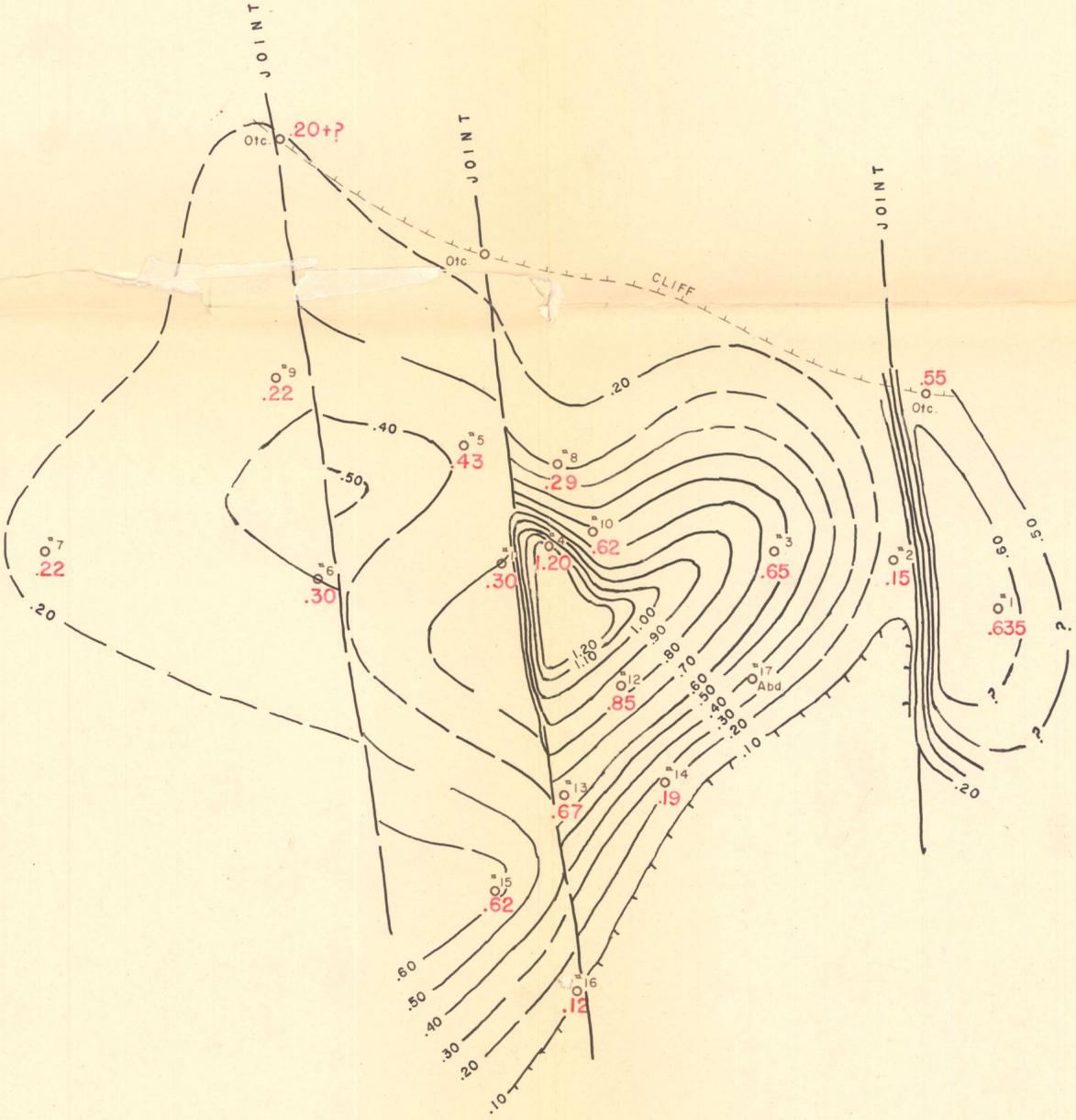
W.P. 1950

Otc.

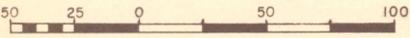
Mag N

N

TRIPP GULCH →



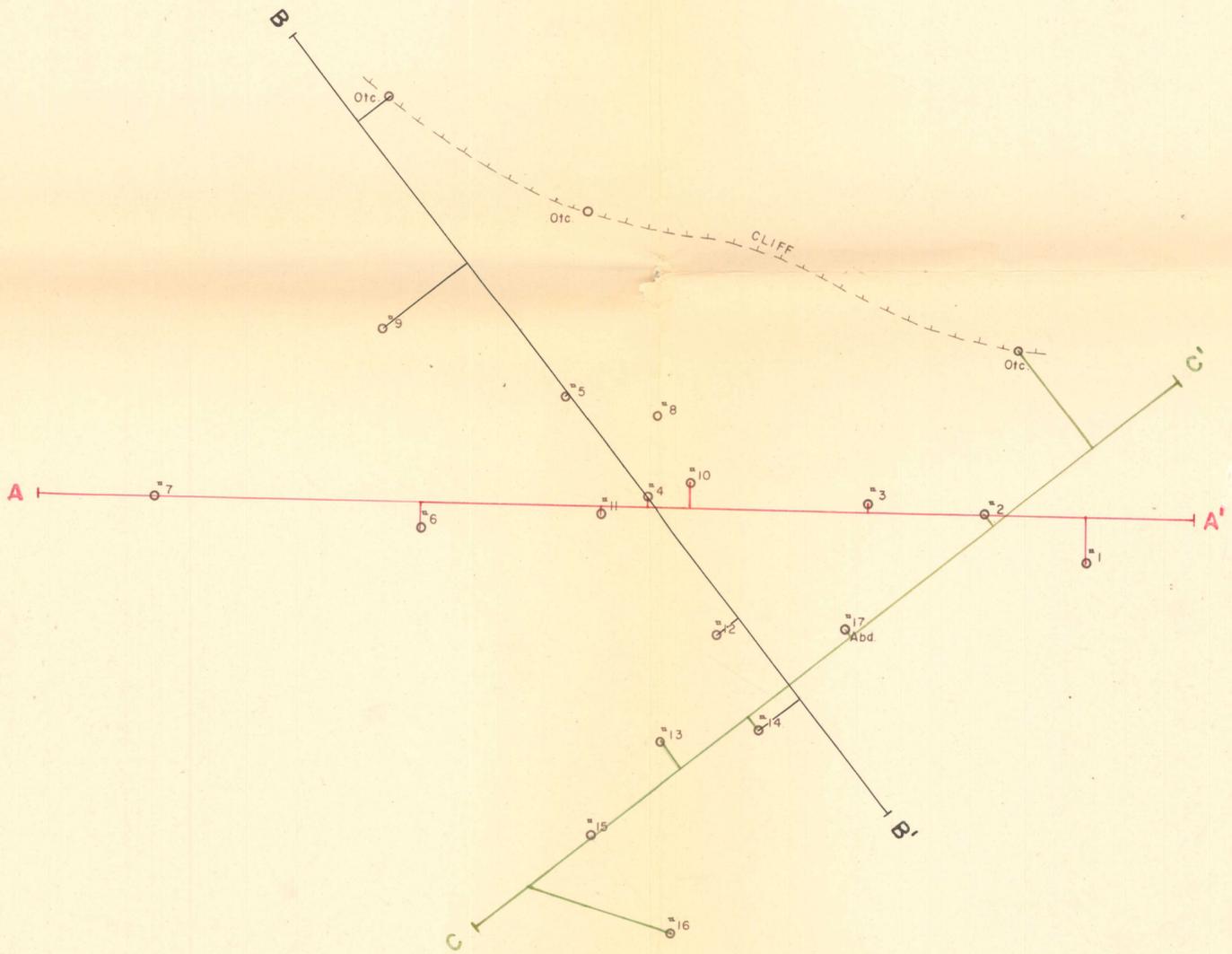
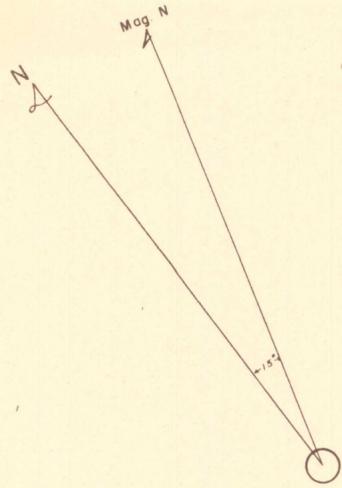
ISO-UNIT CONTOUR MAP

D. HAROLD BYRD
THOMPSON-ALDRIDGE PROJECT
 LA PLATA COUNTY, COLORADO
 SCALE: 1"=50'

 OSTERHOUDT & BROWN:
 S. C. Brown
 W. J. Osterhoudt

Durango, Colorado
 Sept. 27, 1954

4907523

TRIPP GULCH →



CROSS-SECTION INDEX MAP

D. HAROLD BYRD
THOMPSON-ALDRIDGE PROJECT
LA PLATA COUNTY, COLORADO
SCALE: 1"=50'

OSTERHOUDT & BROWN:
S. C. Brown
W. J. Osterhoudt

Durango, Colorado
Sept. 27, 1954

A ← NORTHWEST

SOUTHEAST → A'

HOLE No. 7
ELEV. 6086.6

HOLE No. 6
ELEV. 6086.6

HOLE No. 11
ELEV. 6090.25

HOLE No. 4
ELEV. 6089.5

HOLE No. 10
ELEV. 6087

HOLE No. 3
ELEV. 6084.05

HOLE No. 2
ELEV. 6079.25

HOLE No. 1
ELEV. 6075.15

BOILING IN B.C. 1.2015 to 2.45
COMING OUT B.C. 1.2015 to 2.45

BOILING IN B.C. 1.0175 to 2.05
COMING OUT B.C. 1.0175 to 2.05

BOILING IN B.C. 1.0215 to 2.05
COMING OUT B.C. 1.0215 to 2.05

BOILING IN B.C. 1.0215 to 2.05
COMING OUT B.C. 1.0215 to 2.05

BOILING IN B.C. 1.0215 to 2.05
COMING OUT B.C. 1.0215 to 2.05

BOILING IN B.C. 1.03
COMING OUT B.C. 1.03 to 2.04

BOILING IN B.C. 1.03 to 2.05
COMING OUT B.C. 1.03 to 2.05

BOILING IN B.C. 1.0515 to 2.05
COMING OUT B.C. 1.0515 to 2.05

T.D. 121.3

T.D. 119.0

T.D. 120.0 (See Recorded Log)

T.D. 125

T.D. 111.3

T.D. 116.5

T.D. 141.7

T.D. 122.5

--- FIRST RUN IN
- - - FIRST RUN OUT
* * * REPEAT POINTS

END OF CABLE
THIS HOLE LOGGED ALSO BY
EMPIRE LOGGING CO

CROSS-SECTION A-A'
OCTOBER 1, 1954
S. C. BROWN

A-A'
Osterhout + Brown
File copy

B ← NORTH

SOUTH → B'

HOLE No. 9
ELEV. 6084.7

HOLE No. 5
ELEV. 6084.2

HOLE No. 4
ELEV. 6084.5

HOLE No. 12
ELEV. 6102.2

HOLE No. 14
ELEV. 6107.45

GOING IN B.C. 1.02 to .03
COMING OUT B.C. 1.05 to .035

GOING IN B.C. 1.02 to .03
COMING OUT B.C. 1.02 to .045

GOING IN B.C. 1.02 to .045
COMING OUT B.C. 1.01

GOING IN B.C. 1.05 to .03
COMING OUT B.C. 1.02 to .025

GOING IN B.C. 1.025 to .04
COMING OUT B.C. 1.02 to .035

6080.25 SURFACE

WEAK ORE OUTCROP
VALUE 3.02 VALUE 3.02

T.D. 100.5'

T.D. 107.5'

T.D. 124.0'

T.D. 137.5'

T.D. 142.5'

CROSS-SECTION B-B'

OCTOBER 1, 1954

S. C. BROWN

STANDARD
CROSS SECTION 10 X 10

KUFFEL & ESSER CO.
NEW YORK

STANDARD
CROSS SECTION 10 X 10

KUFFEL & ESSER CO.
NEW YORK

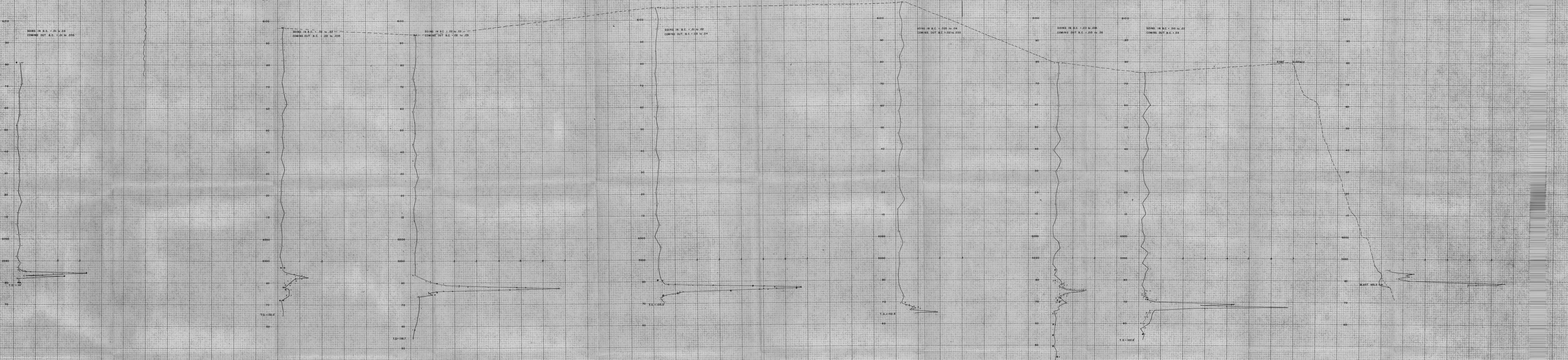
STANDARD
CROSS SECTION 10 X 10

KUFFEL & ESSER CO.
NEW YORK

STANDARD
CROSS SECTION 10 X 10

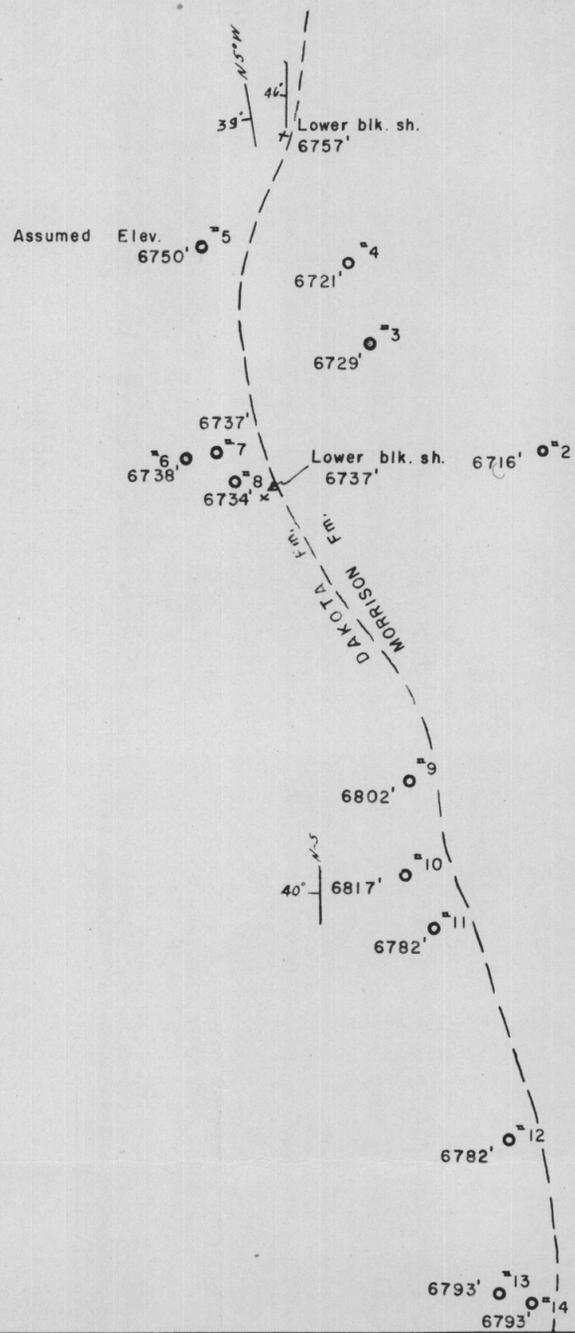
B-B'

HOLE No. 8 ELEV. 6081.0 End Cross Section C ← WEST HOLE No. 16 ELEV. 6096.85 HOLE No. 15 ELEV. 6095.8 HOLE No. 13 ELEV. 6105.7 HOLE No. 14 ELEV. 6107.45 HOLE No. 17 Abandoned at 15' HOLE No. 2 ELEV. 6079.25 HOLE No. 1 ELEV. 6075.15 Cliff outcrop EAST → C'

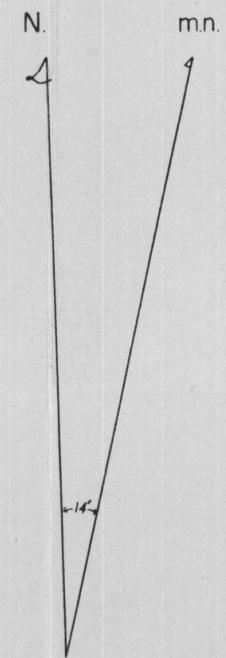


CROSS-SECTION C-C'
OCTOBER 1, 1954
S. S. BROWN

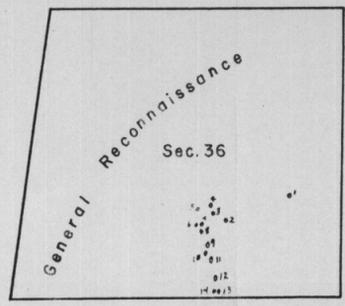
C-C'



6737' 0"1



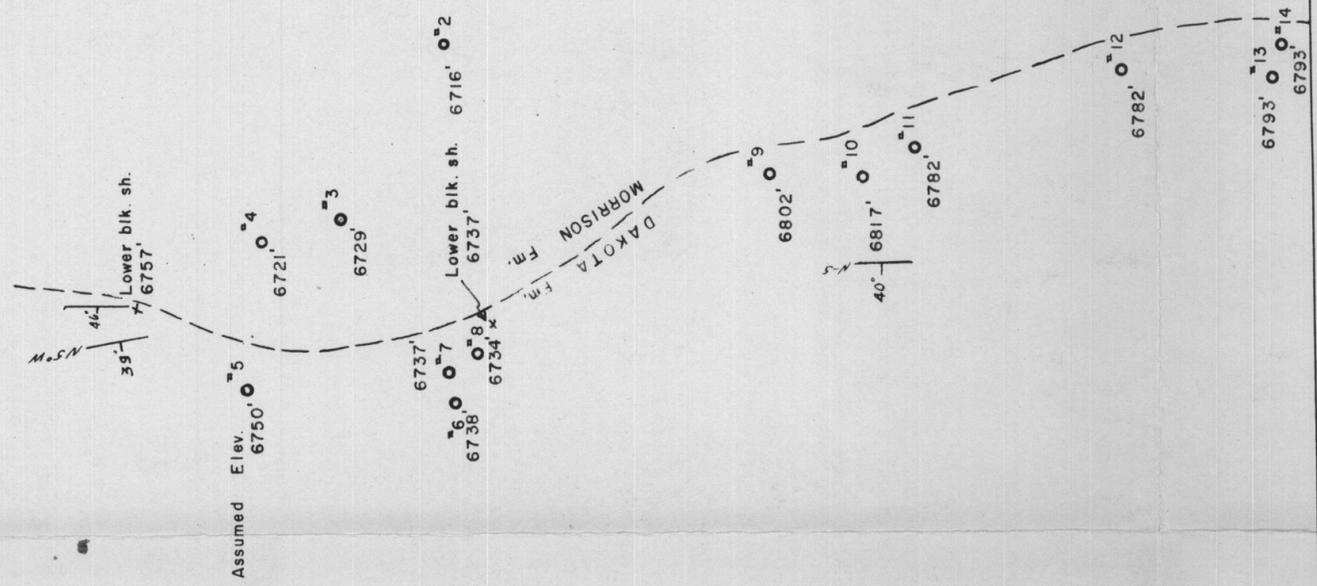
36 31
1 6



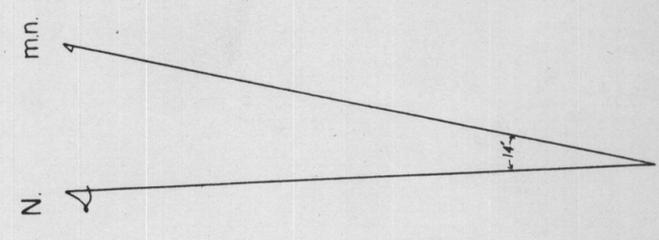
**DRILL HOLE MAP
OF THE
GALLUP AREA**
McKinley County, New Mexico

SCALE: 1"=200'

S. C. Brown Durango, Colorado
W. J. Osterhoudt June 15, 1954



6737' 0"1



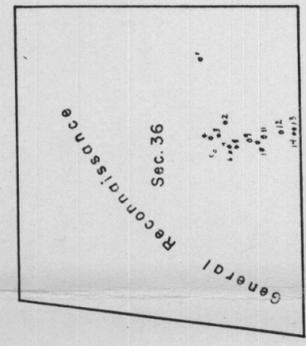
36 31
| 6

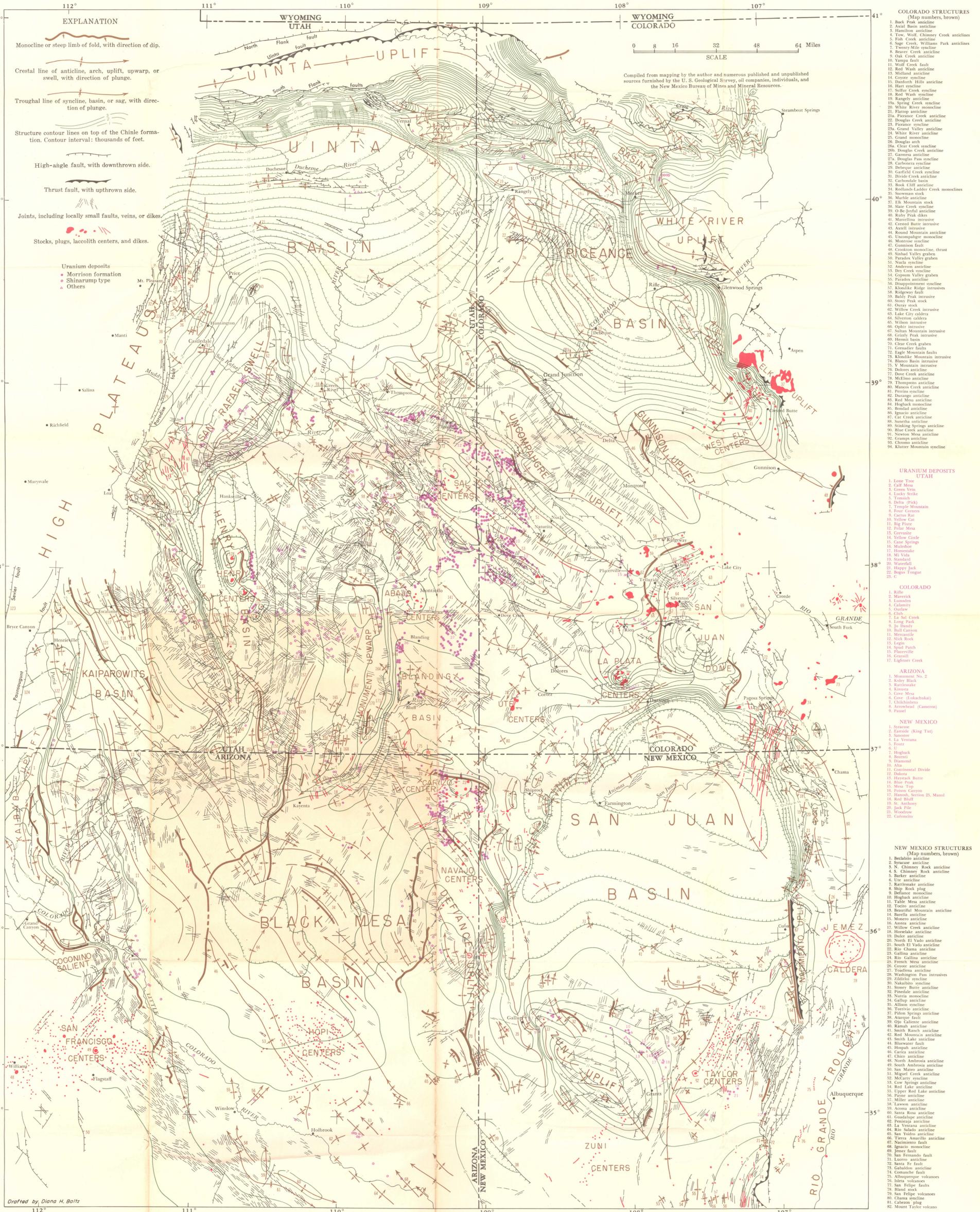
**DRILL HOLE MAP
OF THE
GALLUP AREA**
McKinley County, New Mexico

SCALE: 1" = 200'

S. C. Brown
W. J. Osterhoudt

Durango, Colorado
June 15, 1954





- UTAH STRUCTURES**
(Map numbers, brown)
1. Clay Basin anticline
 2. North Flank fault
 3. Uinta fault
 4. Barker Spring anticline
 5. South Flank fault
 6. Neal anticline
 7. Island Peak anticline
 8. Lake Mountain fault
 9. Sand Creek fault
 10. Dry Canyon fault
 11. Uinta monocline
 12. Split Mountain anticline
 13. Daniels Draw anticline
 14. Ashley Creek anticline
 15. Section Ridge anticline
 16. Blue Mountain anticline
 17. Keweenaw anticline
 18. Red Wash anticline
 19. Strawberry anticline
 20. Duchesne anticline
 21. Niobrara anticline
 22. Minner Maude anticline
 23. Beaver Creek anticline
 24. Fish Creek graben
 25. Pleasant Valley graben
 26. Coosheres Reservoir graben
 27. Forge Mountain fault
 28. Monument Peak split
 29. Gordon Creek anticline
 30. Bear Creek anticline
 31. North Joe Valley anticline
 32. Cedar Creek anticline
 33. South Joe Valley anticline
 34. Granddell Canyon anticline
 35. Flat Canyon anticline
 36. Straight Canyon anticline
 37. Huntington anticline
 38. Joes Valley fault
 39. Frankham anticline
 40. Castlelake anticline
 41. Hill Creek anticline
 42. Bar X anticline
 43. Brown Creek anticline
 44. Harter anticline
 45. Ritter Creek anticline
 46. Little Doherty fault
 47. Davis Ranch monocline
 48. Cottonwood anticline
 49. Dry catch fault
 50. Cienega anticline
 51. South Cienega anticline
 52. Sand Flat graben
 53. Ryan Creek fault
 54. Cottonwood anticline
 55. Thompson anticline
 56. Teacher Creek anticline
 57. Green River anticline
 58. Cottonwood graben
 59. Woodside anticline
 60. Chimney Rock anticline
 61. Black Box anticline
 62. San Rafael monocline
 63. Salt Wash graben
 64. Dellenburgh anticline
 65. Yellowant anticline
 66. Salt Valley graben
 67. Courthouse anticline
 68. Tonnale graben
 69. Elephant Butte anticline
 70. Cache Valley graben
 71. Onion Creek. Fisher graben
 72. Cottonwood graben
 73. Kings Bottom anticline
 74. Mash graben
 75. Park Creek graben
 76. Case Creek anticline
 77. Paradise fault
 78. Deep Mountain intrusives
 79. Sabatino anticline
 80. Salt Change anticline
 81. Canville anticline
 82. Silver Lake anticline
 83. Thousand Lake anticline
 84. Spring Canyon anticline
 85. Fruita anticline
 86. Farrow Butte fault
 87. Fruita anticline
 88. Fruita anticline
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 92. Fruita anticline
 93. Fruita anticline
 94. Fruita anticline

EXPLANATION
Monocline or steep limb of fold, with direction of dip.
Crestal line of anticline, arch, uplift, upward, or swell, with direction of plunge.
Troughal line of syncline, basin, or sag, with direction of plunge.
Structure contour lines on top of the Chinle formation. Contour interval: thousands of feet.
High-angle fault, with downthrown side.
Thrust fault, with upthrown side.
Joints, including locally small faults, veins, or dikes.
Stocks, plugs, laccolith centers, and dikes.

- ARIZONA STRUCTURES**
(Map numbers, brown)
1. Kaibab anticline
 2. Vermilion anticline
 3. Soap Creek anticline
 4. Big Springs fault
 5. Bright Angel fault
 6. Butte fault
 7. East Kaibab monocline
 8. Echo Cliff anticline
 9. Grandview monocline
 10. Coconino monocline
 11. Tuba City anticline
 12. Pecos Mesa anticline
 13. Warm Creek anticline
 14. Red Lake monocline
 15. Cow Springs anticline
 16. Organ Rock anticline
 17. Capitan anticline
 18. Comb monocline
 19. Fryer Creek anticline
 20. Chinle Wash anticline
 21. Red Mesa anticline
 22. Tab Anticline
 23. Bartok monocline
 24. Red Rock anticline
 25. Black Rock anticline
 26. Lakachokai monocline
 27. Chuska anticline
 28. Chidistero anticline
 29. Sheep Creek monocline
 30. Defiance anticline
 31. Big Mountain anticline
 32. Kin anticline
 33. Black Mountain anticline
 34. Pison anticline
 35. Keams Canyon anticline
 36. Seaman anticline
 37. Pison anticline
 38. Black Mesa anticline
 39. Beautiful Valley anticline
 40. Chinle monocline
 41. Rock Mesa monocline
 42. Naatali fault
 43. Buell Park intrusives
 44. Oraibi anticline
 45. Mount Beautiful anticline
 46. Howell Mesa anticline
 47. Tolhaco anticline
 48. Bull Williams volcano
 49. San Francisco volcano
 50. Oak Creek fault
 51. Carter Mount
 52. Sonobine anticline
 53. Cretaceous anticline
 54. Turner Springs anticline
 55. Window anticline
 56. South Springs anticline
 57. Chevelon Creek anticline
 58. Richard Lake anticline
 59. Holbrook anticline
 60. Zuffi anticline
 61. Ortago anticline
 62. Carino anticline
 63. Crocho anticline
 64. Chambers anticline
 65. Navajo anticline
 66. Zuni anticline
 67. Twin Buttes anticline
 68. Hock anticline
 69. Defiance monocline

- UTAH URANIUM DEPOSITS**
- Morrison formation
 - Shinarump type
 - Others

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Low Tree
 2. Call Mine
 3. Green Vein
 4. Lucky Star
 5. Tommie
 6. Delta (P&A)
 7. Temple Mountain
 8. Carlin
 9. Carlin
 10. Yellow Cat
 11. Big Pierre
 12. Phlar Mesa
 13. Corvada
 14. Yellow Circle
 15. Case Springs
 16. Mulshoe
 17. Honesdale
 18. Mt. Vida
 19. Sandhead
 20. Waterfall
 21. Happy Jack
 22. Bogus Tongue
 23. C.

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Rifle
 2. Maverick
 3. Lemmon
 4. Calamity
 5. Calamity
 6. Club
 7. Long Park
 8. Long Park
 9. Bull Canyon
 10. Bull Canyon
 11. Bull Canyon
 12. Slick Rock
 13. Spiral Patch
 14. Phareville
 15. Gravelly
 16. Lighter Creek

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Mountain No. 2
 2. Koly Blue
 3. Kullback
 4. Kullback
 5. Cove Mesa
 6. Cove (Lakachokai)
 7. Chidistero (Cameron)
 8. Pausel

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Sycamore
 2. Lonsdale (King Flat)
 3. Suncote
 4. La. Venosa
 5. Post
 6. Hughes
 7. Hughes
 8. Diamond
 9. Diamond
 10. Continental Divide
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- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Belshio anticline
 2. Spruce anticline
 3. N. Chimney Rock anticline
 4. S. Chimney Rock anticline
 5. Barker anticline
 6. Use anticline
 7. Rattlesnake anticline
 8. Ship Rock plug
 9. Defiance monocline
 10. Highback anticline
 11. Table Mesa anticline
 12. Table Mesa anticline
 13. Beautiful Mountain anticline
 14. Bartok anticline
 15. Mansero anticline
 16. Antox anticline
 17. Willow Creek anticline
 18. Howdale anticline
 19. Doler anticline
 20. North El Vado anticline
 21. South El Vado anticline
 22. Rio Chama anticline
 23. Rio Chama anticline
 24. Rio Gallina anticline
 25. Corvada anticline
 26. Corvada anticline
 27. Tonnale anticline
 28. Washington Pass intrusives
 29. Natabio anticline
 30. Natabio anticline
 31. Pinedale anticline
 32. Natabio anticline
 33. Gallup anticline
 34. Gallup anticline
 35. Torvito anticline
 36. Torvito anticline
 37. Pison Springs anticline
 38. Ataque fault
 39. Chidistero anticline
 40. Ramah anticline
 41. Smith Ranch anticline
 42. Red Mountain anticline
 43. Smith Lake anticline
 44. Newberry fault
 45. Hopah anticline
 46. Cario anticline
 47. Chico anticline
 48. North Ambrosia anticline
 49. South Ambrosia anticline
 50. McCarty anticline
 51. Miguel Creek anticline
 52. Red Lake anticline
 53. Cow Springs anticline
 54. Upper Red Lake anticline
 55. Miller anticline
 56. Lawson anticline
 57. Acoma anticline
 58. Santa Rosa anticline
 59. Goodnight anticline
 60. Penitaja anticline
 61. La. Venosa anticline
 62. Rio Salado anticline
 63. San Ysidro anticline
 64. Tierra Amarilla anticline
 65. Nacimiento fault
 66. Ignacio monocline
 67. Inzer fault
 68. San Fernando fault
 69. Lacro fault
 70. Galbano anticline
 71. Galbano anticline
 72. Comanche fault
 73. Albuquerque volcanoes
 74. Comanche fault
 75. Santa Fe fault
 76. Santa Fe fault
 77. San Felipe fault
 78. Bland stock
 79. San Felipe volcanoes
 80. Chama anticline
 81. Chama plug
 82. Mount Taylor volcano

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Low Tree
 2. Call Mine
 3. Green Vein
 4. Lucky Star
 5. Tommie
 6. Delta (P&A)
 7. Temple Mountain
 8. Carlin
 9. Carlin
 10. Yellow Cat
 11. Big Pierre
 12. Phlar Mesa
 13. Corvada
 14. Yellow Circle
 15. Case Springs
 16. Mulshoe
 17. Honesdale
 18. Mt. Vida
 19. Sandhead
 20. Waterfall
 21. Happy Jack
 22. Bogus Tongue
 23. C.

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Rifle
 2. Maverick
 3. Lemmon
 4. Calamity
 5. Calamity
 6. Club
 7. Long Park
 8. Long Park
 9. Bull Canyon
 10. Bull Canyon
 11. Bull Canyon
 12. Slick Rock
 13. Spiral Patch
 14. Phareville
 15. Gravelly
 16. Lighter Creek

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Mountain No. 2
 2. Koly Blue
 3. Kullback
 4. Kullback
 5. Cove Mesa
 6. Cove (Lakachokai)
 7. Chidistero (Cameron)
 8. Pausel

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Sycamore
 2. Lonsdale (King Flat)
 3. Suncote
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- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Belshio anticline
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 16. Antox anticline
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 23. Rio Chama anticline
 24. Rio Gallina anticline
 25. Corvada anticline
 26. Corvada anticline
 27. Tonnale anticline
 28. Washington Pass intrusives
 29. Natabio anticline
 30. Natabio anticline
 31. Pinedale anticline
 32. Natabio anticline
 33. Gallup anticline
 34. Gallup anticline
 35. Torvito anticline
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 72. Comanche fault
 73. Albuquerque volcanoes
 74. Comanche fault
 75. Santa Fe fault
 76. Santa Fe fault
 77. San Felipe fault
 78. Bland stock
 79. San Felipe volcanoes
 80. Chama anticline
 81. Chama plug
 82. Mount Taylor volcano

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Low Tree
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 23. C.

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Rifle
 2. Maverick
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 4. Calamity
 5. Calamity
 6. Club
 7. Long Park
 8. Long Park
 9. Bull Canyon
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 11. Bull Canyon
 12. Slick Rock
 13. Spiral Patch
 14. Phareville
 15. Gravelly
 16. Lighter Creek

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Mountain No. 2
 2. Koly Blue
 3. Kullback
 4. Kullback
 5. Cove Mesa
 6. Cove (Lakachokai)
 7. Chidistero (Cameron)
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- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
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- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Belshio anticline
 2. Spruce anticline
 3. N. Chimney Rock anticline
 4. S. Chimney Rock anticline
 5. Barker anticline
 6. Use anticline
 7. Rattlesnake anticline
 8. Ship Rock plug
 9. Defiance monocline
 10. Highback anticline
 11. Table Mesa anticline
 12. Table Mesa anticline
 13. Beautiful Mountain anticline
 14. Bartok anticline
 15. Mansero anticline
 16. Antox anticline
 17. Willow Creek anticline
 18. Howdale anticline
 19. Doler anticline
 20. North El Vado anticline
 21. South El Vado anticline
 22. Rio Chama anticline
 23. Rio Chama anticline
 24. Rio Gallina anticline
 25. Corvada anticline
 26. Corvada anticline
 27. Tonnale anticline
 28. Washington Pass intrusives
 29. Natabio anticline
 30. Natabio anticline
 31. Pinedale anticline
 32. Natabio anticline
 33. Gallup anticline
 34. Gallup anticline
 35. Torvito anticline
 36. Torvito anticline
 37. Pison Springs anticline
 38. Ataque fault
 39. Chidistero anticline
 40. Ramah anticline
 41. Smith Ranch anticline
 42. Red Mountain anticline
 43. Smith Lake anticline
 44. Newberry fault
 45. Hopah anticline
 46. Cario anticline
 47. Chico anticline
 48. North Ambrosia anticline
 49. South Ambrosia anticline
 50. McCarty anticline
 51. Miguel Creek anticline
 52. Red Lake anticline
 53. Cow Springs anticline
 54. Upper Red Lake anticline
 55. Miller anticline
 56. Lawson anticline
 57. Acoma anticline
 58. Santa Rosa anticline
 59. Goodnight anticline
 60. Penitaja anticline
 61. La. Venosa anticline
 62. Rio Salado anticline
 63. San Ysidro anticline
 64. Tierra Amarilla anticline
 65. Nacimiento fault
 66. Ignacio monocline
 67. Inzer fault
 68. San Fernando fault
 69. Lacro fault
 70. Galbano anticline
 71. Galbano anticline
 72. Comanche fault
 73. Albuquerque volcanoes
 74. Comanche fault
 75. Santa Fe fault
 76. Santa Fe fault
 77. San Felipe fault
 78. Bland stock
 79. San Felipe volcanoes
 80. Chama anticline
 81. Chama plug
 82. Mount Taylor volcano

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Low Tree
 2. Call Mine
 3. Green Vein
 4. Lucky Star
 5. Tommie
 6. Delta (P&A)
 7. Temple Mountain
 8. Carlin
 9. Carlin
 10. Yellow Cat
 11. Big Pierre
 12. Phlar Mesa
 13. Corvada
 14. Yellow Circle
 15. Case Springs
 16. Mulshoe
 17. Honesdale
 18. Mt. Vida
 19. Sandhead
 20. Waterfall
 21. Happy Jack
 22. Bogus Tongue
 23. C.

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Rifle
 2. Maverick
 3. Lemmon
 4. Calamity
 5. Calamity
 6. Club
 7. Long Park
 8. Long Park
 9. Bull Canyon
 10. Bull Canyon
 11. Bull Canyon
 12. Slick Rock
 13. Spiral Patch
 14. Phareville
 15. Gravelly
 16. Lighter Creek

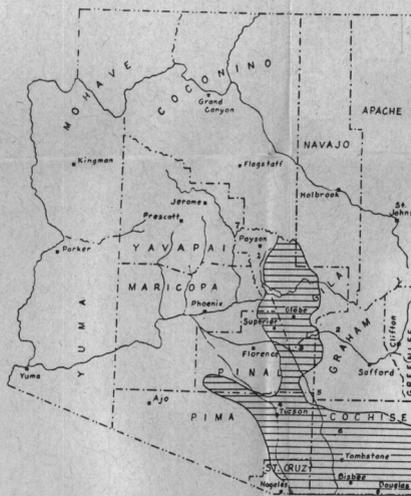
- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Mountain No. 2
 2. Koly Blue
 3. Kullback
 4. Kullback
 5. Cove Mesa
 6. Cove (Lakachokai)
 7. Chidistero (Cameron)
 8. Pausel

- UTAH URANIUM DEPOSITS**
(Map numbers, brown)
1. Sycamore
 2. Lonsdale (King Flat)
 3. Suncote
 4. La. Venosa
 5. Post
 6. Hughes
 7. Hughes
 8. Diamond
 9. Diamond
 10. Continental Divide
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 21. South El Vado anticline
 22. Rio Chama anticline
 23. Rio Chama anticline
 24. Rio Gallina anticline
 - 2



a.—Early Middle Cambrian
Tapeats basin ruled. Cross indicates southern limit of Muav basin.
(1) Gila River, (2) Agua Fria, (3) Verde River, (4) Tonto Creek, (5) Salt River.



b.—Late Middle Cambrian
Troy basin ruled. (1) Tonto Creek, (2) Gila River, (3) Galiuro Mountains, (4) Santa Catalina Mountains, (5) San Pedro River, (6) Little Dragon Mountains, (7) East Verde River.



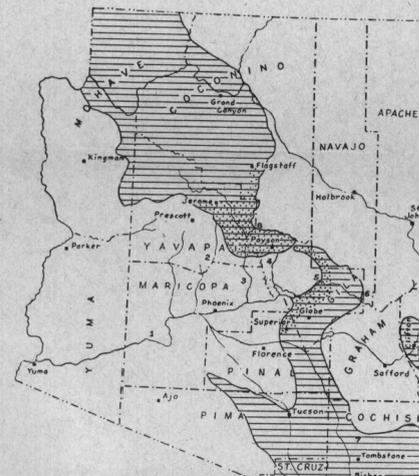
c.—Late Middle Cambrian
Santa Catalina basin ruled. (1) Santa Catalina Mountains, (2) Gila River, (3) San Pedro River, (4) Little Dragon Mountains. *Olenoides pugio* time.



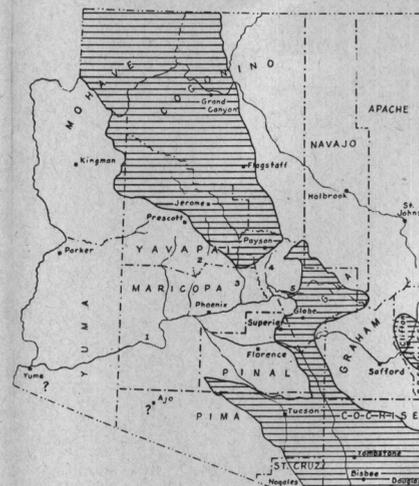
d.—Early Late Cambrian
Abrigo and northwestern basins ruled. (1) Santa Catalina Mountains, (2) Virgin Mountains. *Tricrioccephalus texanus* time.



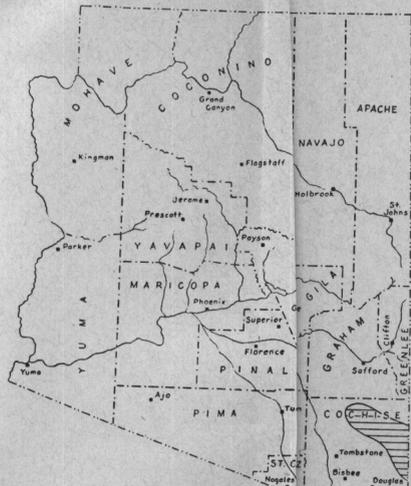
e.—Early Ordovician
Longfellow and Dos Cabezas basins ruled. (1) Dos Cabezas Mountains.



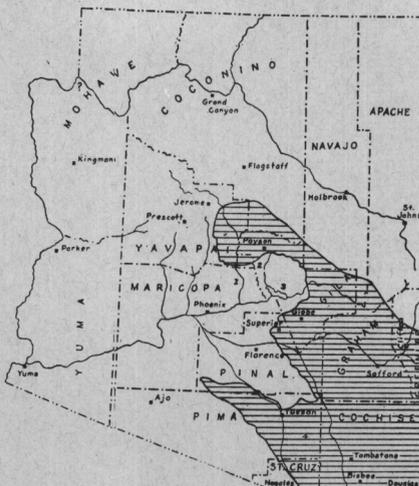
f.—Late Devonian
Jerome, Martin, and Morenci basins ruled, arenaceous facies with Arthroire fishes dotted. (1) Gila River, (2) Agua Fria, (3) Verde River below its confluence with East Verde River, (4) Tonto Creek, (5) Salt River, (6) Fort Apache, (7) Little Dragon Mountains, (8) East Verde River.



g.—Early Mississippian
Redwall, Escabrosa, and Modoc basins ruled. (1) Gila River, (2) Agua Fria, (3) Verde River, (4) Tonto Creek, (5) Salt River.



h.—Late Mississippian
Paradise basin ruled.



i.—Pennsylvanian
Pennsylvanian basin ruled. (1) Verde River, (2) Tonto Creek, (3) Lake Roosevelt, (4) Empire Mountains.



j.—Permian
Manzano basin ruled, Supai basin dotted. (1) Fort Apache, (2) Santa Rita Mountains, (3) Empire Mountains, (4) Whetstone Mountains, (5) Naco Hills.



k.—Permian
Snyder Hill basin ruled. (1) Harquahala Mountains.



l.—Permian
Chiricahua and late Kaibab basins ruled. Late *Waagenoconcha montipolierensis* time.

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