Commenced drilling operations at 3:00 P.M., February 5, 1946, drilling a 17½" hole to 811' and a 12½" hole to 865'.

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Shale and boulders</td>
</tr>
<tr>
<td>97</td>
<td>Boulders, hard sand and basalt</td>
</tr>
<tr>
<td>181</td>
<td>Basalt</td>
</tr>
<tr>
<td>681</td>
<td>Basalt and shale</td>
</tr>
<tr>
<td>706</td>
<td>Basalt</td>
</tr>
<tr>
<td>793</td>
<td>Basalt and shale with hard streaks</td>
</tr>
</tbody>
</table>

March 16, 1946, ran and cemented 796' of 13-3/8" 54.5# J-55 casing at 811' with 700 sacks hi-early and construction cement mixed to an estimated 40% slurry. Stood cemented. Landed casing. Installed blow-out prevention equipment. Closed Shaffer gate and tested Shaffer gate and casing under 1000# pressure for 30 minutes without loss. Tested Hydriil and casing under 600# pressure for 30 minutes without loss. Drilled out cement and plugs 795-817', checking shoe of 13-3/8" casing at 811'.

Alternately cored an 8½" hole and drilled a 12½" hole from 865' to 7885', the total depth, which was reached on June 5, 1946.

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>865</td>
<td><strong>Core #1 - Recovered 10'</strong></td>
</tr>
<tr>
<td></td>
<td>10' Sand, firm, dull gray, fine-grained, fairly well sorted, silty, tuffaceous, thinly laminated, few red colored grains, tight.</td>
</tr>
<tr>
<td>875</td>
<td>Shale and silt with streaks of sand</td>
</tr>
<tr>
<td>1801</td>
<td>Shale and sand</td>
</tr>
<tr>
<td>2025</td>
<td><strong>Core #2 - Recovered 9'</strong></td>
</tr>
<tr>
<td></td>
<td>3' Sand, firm, dark grass-green, massive, fine to medium grained, consisting of pellets of basalt and a few small brick-red grains in bentonitic clay matrix, probably impervious and of volcanic origin.</td>
</tr>
<tr>
<td></td>
<td>3' Sands ditto; but with abundant large gastropod and pelecypod shell fragments.</td>
</tr>
<tr>
<td></td>
<td>2'9&quot; Sand as in top of core with abundant large pelecypod impressions.</td>
</tr>
<tr>
<td></td>
<td>2' Sand as in top of core with abundant large pelecypod fragments.</td>
</tr>
<tr>
<td></td>
<td>2'10&quot; Sand, firm, dark green, massive, composed of black grains and pellets and lesser amounts of red grains in matrix of bentonitic clay; several small pelecypod impressions and of volcanic origin.</td>
</tr>
</tbody>
</table>
Log and History
Barber #1

2035 2045  Core #3 - Recovered 9'
9' Ditto; as above; one fragment of large pelecypod.

2045 2055  Core #4 - Recovered 7'
5' Volcanic sand; as above; with abundant large
pelecypods at 2047' (3" thick bed) and 2049'
(5" thick bed).
2' Volcanic sand; as above; but indicates breccia frag-
ments of basalt up to ½" in length.

2055 2065  Core #5 - Recovered 10'
10' Volcanic agglomerate: firm, dark green, sharp angular
basalt fragments in matrix of impure bentonitic clay;
clay contains streaks of white tuffaceous material.

2065 2075  Core #6 - Recovered 10'
10' Ditto.

2075 2082  Core #7 - Recovered 6'
6' Ditto.

2082 2534  Sand and shale
2534 2690  Basalt, shale and conglomerate
2690 2907  Sand and shale
2907 3080  Shale, sand and conglomerate
3080 3235  Volcanic shale and conglomerate

3235 3244  Core #8 - Recovered 9'
9' Volcanic agglomerate: firm to hard, dark gray-green,
massive, consisting mostly of dark green to black
finely crystalline angular fragments up to 1" of basalt
in matrix of green muddy clay, and vitreous silica,
and several light gray veins of lime-silicate.

3244 3254  Core #9 - Recovered 4'
4' Ditto.

3254 3264  Core #10 - Recovered 4'
4' Ditto.

3264 3268  Core #11 - No recovery

3268 3278  Core #12 - No recovery

3278 3289  Core #13 - No recovery

3289 3292  Core #14 - No recovery

3292 3357  Volcanic shale and conglomerate
3357 3508  Volcanic shale, basalt and conglomerate
3508 3689  Volcanic shale and agglomerate
3689 3814  Volcanic agglomerate
Log and History
Barber #1

3814 3819  Core #15 - Recovered 2'
2' Volcanic agglomerate: broken and mixed up fragments
of brick-red impure bentonitic clay and hard green
volcanic agglomerate containing angular fragments of
volcanic rocks. Core may consist of wall cuttings.

3819 3820  Core #16 - Recovered 1'
6" As above but may be wall cuttings.
6" Basalt: hard, dark green, dense.

3820 3823  Core #17 - Recovered 2'
2' Basalt: hard, dark green, dense, common small veins
of white chalcedonic ? silica.

3823 3827  Core #18 - Recovered 1'
1' Basalt: as above.

3827 3832  Core #19 - Recovered 1½'
1½' Basalt: as above.

3832 3834  Core #20 - Recovered 1'
1' Basalt: as above.

3834 3836  Core #21 - Recovered 2'
2' Basalt: as above.

3836 3861  Basalt and agglomerate
3861 3904  Basalt
3904 4211  Volcanic agglomerate

4211 4218  Core #22 - Recovered 5'
5' Volcanic agglomerate, firm, olive-green, bentonitic
with common chunks of white ash, veinlets of chalcedonic
silica, and a few calcite veins.

4218 4223  Core #23 - Recovered 4'
2' Ditto: several slickensides.
2' Ditto: but firmer with several rose-colored chalcedonic
silica veins.

4223 4231  Core #24 - Recovered 8'
8' Andesite: hard, green, dense, veins of silica,
scattered quartz.

4231 4240  Core #25 - Recovered 6'
6' Ditto.

4240 4250  Core #26 - Recovered 7'
7' Ditto.

4250 4260  Core #27 - Recovered 4'
4' Ditto.
Log and History
Barber #1

4260 4265  Core #28 - Recovered 2\(\frac{1}{2}\)'
2\(\frac{1}{2}\)' Ditto.

4265 4270  Core #29 - Recovered 4'
4' Ditto.

4270 4927  Volcanic agglomerate and shale

4927 4937  Core #30 - Recovered 9'
6' Volcanic clay: dark red to blood red, firm, greasy.
3' Basalt: hard, dark gray, vesicular, more dense than
basalt cored above this depth.

4937 4947  Core #31 - Recovered 10'
10' Basalt: hard, variegated green, gray and rusty brown,
showing a few slickensides and white veins mostly vertical,
one vertical fault contact of basalt and volcanic
agglomerate.

4947 4955  Core #32 - Recovered 4'
4' Ditto.

4955 4960  Core #33 - Recovered 2'
2' Ditto.

4960 4966  Core #34 - Recovered 2'
2' Ditto.

4966 4973  Core #35 - Recovered 1'
1' Broken-up pieces of basalt.

4973 5237  Volcanic agglomerate, basalt and shale

5237 5243  Core #36 - Recovered 3'
3' Basalt: hard, black to green, dense and aphanitic.

5243 5253  Core #37 - Recovered 6'
2' Basalt: hard, gray, black, and green, dense, several
white veins.
4' Basalt: hard, gray, black, green and reddish-brown
with rounded and elliptical inclusions of snow white
zeolites including natrolite.

5253 5263  Core #38 - Recovered 7'
7' Ditto; as above but with a few calcite veins.

5263 5273  Core #39 - Recovered 2'
2' Basalt: hard, black, dense and aphanitic.

5273 5276  Core #40 - Recovered 2\(\frac{1}{2}\)'
2\(\frac{1}{2}\)' Ditto: as above.
Log and History
Barber #1

5276  5745  Volcanic agglomerate

5745  5748  Core #41 - Recovered 2'
          2' Basalt: hard, black, dense.

5748  5750  Core #42 - Recovered 1'
          1' Ditto.

5750  5751  Core #43 - Recovered 1'
          1' Ditto.

5751  5753  Core #44 - Recovered 1'
          1' Ditto.

5753  5754  Core #45 - Recovered 1'
          1' Ditto.

5754  5755  Core #46 - Recovered 1'
          1' Ditto.

5755  5899  Volcanic agglomerate

5899  5909  Core #47 - Recovered 7'
          7' Volcanic agglomerate: hard, green, angular basalt
          fragments up to one inch; few slickensides and white
          veins, matrix alive, green, and aphanitic.

5909  5919  Core #48 - Recovered 1'
          1' Ditto.

5919  5929  Core #49 - Recovered 1½'
          1½' Ditto.

5929  5939  Core #50 - Recovered 3'
          3' Ditto.

5939  5949  Core #51 - Recovered ½'
          ½' Ditto.

5949  6680  Volcanic agglomerate

6680  6690  Core #52 - Recovered 9'
          9' Volcanic agglomerate: intermixed and poorly bedded;
          1) hard olive green volcanic agglomerate with sharp
             angular pieces of basalt in matrix of grayish-
             green impure bentonitic clay;
          2) dark gray volcanic agglomerate consisting mostly
             of hard shale with small fragments of basaltic
             debris showing several slickensides.
Log and History
Barber #1

6690 6697  **Core #53** - Recovered 2'
1' Volcanic breccia: hard, dark green, numerous slickensides, chloritized, several veins of chaledonic silica;
1' Basalt: hard, dark gray, dense.

6697 6707  **Core #54** - Recovered 9'
3\1/2' Basalt: hard, variegated red and gray.
5\1/2' Ditto but mostly gray colored, one 1/32" thick vein of calcite.

6707 6713  **Core #55** - Recovered 6'
2' Ditto.
3' Variegated red and green clay; some gouge, fragments of chloritized basalt.
1' Basalt: hard, green, several slickensides, several veins of chaledonic silica.

6713 6723  **Core #56** - Recovered 6'
6' Intermixed fragments of basalt and variegated green and red clay, possibly some gouge.

6723 6731  **Core #57** - Recovered 6'
2' Fragments of basalt: chloritized basalt and gouge.
4' Basalt: hard, dark gray and green, several calcite veins and several slickensides.

6731 7517  Volcanic agglomerate and basalt

7517 7527  **Core #58** - Recovered 3'
3' Andesite: hard, varicolored gray, red and purple, dense, aphanitic, with many veins of calcite.

7527 7537  **Core #59** - Recovered 2'
2' Ditto.

7537 7542  **Core #60** - Recovered 3'
3' Ditto.

7542 7547  **Core #61** - Recovered 3'
3' Ditto.

7547 7555  **Core #62** - Recovered 4'
4' Ditto.

7555 7560  **Core #63** - Recovered 4'
4' Ditto.
Log and History
Barber #1

7560  7565  **Core #64** - Recovered 5'
   5' Ditto.

7565  7570  **Core #65** - Recovered 3'
   3' Ditto.

7570  7575  **Core #66** - Recovered 1'
   1' Ditto.

7575  7829  Volcanic agglomerate

7829  7837  **Core #67** - Recovered 1'
   1' Andesitic breccia: firm to soft, varicolored gray and red, angular fragments of andesite up to 1", common calcite veins.

7837  7844  **Core #68** - Recovered 6'
   6' Andesitic breccia: firm to friable, varicolored gray and red, angular fragments of andesite up to 1", common calcite veins, good evidence of flow structure showing dip of 80° between contacts of breccia and weathered breccia.

7844  7851  **Core #69** - Recovered 7'
   7' Ditto.

7851  7859  **Core #70** - Recovered 2'
   2' Ditto.

7859  7867  **Core #71** - Recovered 7'
   7' Red muddy clay: with fragments of andesite, few calcite veins.

7867  7877  **Core #72** - Recovered 5'
   4' Red muddy clay: as above.
   1' Andesite: hard, gray, finely crystalline.

7877  7885  **Core #73** - Recovered 3'
   3' Andesitic breccia: hard, portions fractured, common calcite veins.

Ran Schlumbergers at the following depths: 2180', 3298', 4883', 5899', 6854' and 7885'.
Log and History
Barber #1

Plugged Across Shoe of 13-3/8" casing In Process of Abandonment:
With 4 1/2" 16.6# open-end drill pipe hanging at 823', pumped in 130 sacks
construction cement mixed to estimated 40% slurry. Laid down drill pipe
and dismantled equipment. Ran in with 12 1/2" bit on 4 1/2" drill pipe
and found top of hard cement at 745'. HOLE ABANDONED - June 7, 1946.
Welded steel plate on 13-3/8" casing at the surface and erected marker.

PRESENT CONDITION OF HOLE:


Casing Record: 4' - 22" 117# conductor set at 20'.
796' - 13-3/8" 54.5# J-55 cemented 811'.

HOLE ABANDONED - June 7, 1946.

(Welded steel plate on 13-3/8" casing at the surface and erected marker)

Fowler Drilling Company Drillers:
E.E. Emard
L.L. Faulkenburk
B. Fulbright