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75-643

U.S. GEOLOGICAL SURVEY
Reston, Va. 22092

Memorandum

Date 12/5/75

To: Branch of Plans and Program Management,
Publications Division - Stop 329

From: Chief, Office of Scientific Publications

Subject: New USGS open-file report

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Director on DEC 4 1975 for release in the open files:

TITLE: Generalized logs of drill holes, Sandoval County, New Mexico

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CONTENTS: 6 p., pls., figs., tables.

Map scale:

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Release date: DEC. 1975

Area: NEW MEXICO

Report No. 75-643

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Generalized Logs of Drill Holes,

Sandoval County, New Mexico

By

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and

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U. S. GEOLOGICAL SURVEY
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Open-file Report 75-643

1975

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards of nomenclature.

Drill Hole 1: Location - N.W. corner Volcano Ranch 7½' quadrangle.

Drill hole located on east side of 60th St., 0.2 mi
south of Southern Blvd. Elevation = 6,122'.

Description - 0 - 6.8"	Sand, loose
6'8" - 13'0"	Sand, calcareous
13'0" - 22'0"	Sand, pebbly
22'0" - 27'9"	Caliche
27'9" - 31'6"	Sand
31'6" - 33'0"	Caliche
33'0" - 40'6"	Sand, with caliche nodules
40'6" - 46'6"	Caliche
46'6" - 55'8"	Sand, pebbly
55'8" - 57'0"	Caliche
base of hole, elevation = 6,065'	

Drill Hole 2: Location - N.W. corner Volcano Ranch 7½' quadrangle.

Drill hole located on north side of junction between
54th St. and arroyo (diagonal) road. Elevation = 5,992'.

Description - 0 - 14'9"	Sand, loose, occasional calcareous zones
14'9" - 16'3"	Caliche, sandy
16'3" - 48'7"	Sand, minor caliche and clayey zones
48'7" - 52'6"	Caliche
52'6" - 57'0"	Gravel, sandy
base of hole, elevation = 5,935'	

Drill Hole 3: Location - N.W. corner Volcano Ranch $7\frac{1}{2}'$ quadrangle.

North of junction of 57th St. and arroyo (diagonal)
road. 2,700' southeast of Hole 1. Elevation = 6,032'.

Description - 0 - 15' Sand, loose

15'0" - 17'9" Sand, calcareous

17'9" - 21'9" Caliche

base of hole, elevation = 6,010'

Drill Hole 4: Location - N.W. corner Volcano Ranch $7\frac{1}{2}'$ quadrangle.

Drill hole located on east side of 52nd St., 0.2 mi
south of Southern Blvd., about 4,750' east of Hole 1.
Elevation = 6,024'.

Description - 0 - 22'6" Sand, pebbly in lower part

22'6" - 27'10" Caliche

27'10"- 31'2" Sand

base of hole, elevation = 5,993'

Drill Hole 5: Location - S.W. part Loma Machete $7\frac{1}{2}'$ quadrangle. Drill
hole located about 8,950' north of south quad. boundary
($35^{\circ}15'$) and 7,930' east of west quad. boundary ($106^{\circ}45'$).
Elevation = 5,785'.

Description - 0 - 4'0" Sand

4'0" - 9'0" Caliche

9'0" - 12'0" Sand

base of hole, elevation = 5,773'

Drill Hole 6: Location - S.W. part Loma Machete $7\frac{1}{2}'$ quadrangle. Drill hole located about 8,950' north of south quad. boundary ($35^{\circ}15'$) and 7,650' east of west quad. boundary ($106^{\circ}45'$). Elevation = 5,778'.

Description - 0 - 2'0" Sand
2'0" - 3'0" Caliche, sandy
3'0" - 10'0" Caliche, firm
10'0" - 12'0" Sand, calcareous
base of hole, elevation = 5,766'

Drill Hole 7: Location - S.W. part Loma Machete $7\frac{1}{2}'$ quadrangle. Drill hole located about 8,950' north of south quad. boundary ($35^{\circ}15'$) and 6,550' east of west quad. boundary ($106^{\circ}45'$). Elevation = 5,791'.

Description - 0 - 3'0" Sand, gravelly
3'0" - 33'0" Sand, with occasional clayey
to gravelly zones
base of hole, elevation = 5,758'
No caliche found

Drill Hole 8: Location - S.W. part of Loma Machete $7\frac{1}{2}'$ quadrangle. Drill hole located about 5,550' north of south quad. boundary ($35^{\circ}15'$) and 5,230' east of west quad. boundary ($106^{\circ}45'$). Elevation = 5,772'.

Description - 0 - 4'0" Sand, loose
 4'0" - 7'0" Sand, calcareous, firm
 7'0" - 10'0" Sand, calcareous, pebbly
 10'0" - 12'3" Caliche, sandy, hard
 12'3" - 14'0" Sand, calcareous, firm
 14'0" - 23'0" Sand, loose
 base of hole, elevation = 5,749'

Drill Hole 9: Location - S.W. part of Loma Machete 7½' quadrangle. Drill hole located about 5,500' north of south quad. boundary (35°15') and 7,800' east of west quad. boundary (106°45'). Elevation = 5,736'.

Description - 0 - 11'7" Sand and gravel, caliche
 nodules common
 11'7" - 16'10" Sand, loose
 base of hole, elevation = 5,719'

Drill Hole 10: Location - S.W. part of Loma Machete 7½' quadrangle. Drill hole located about 2,850' north of south quad. boundary (35°15') and 8,200' east of west quad. boundary (106°45'). Elevation = 5,007'.

Description - 0 - 7'0" Sand, calcareous
 7'0" - 9'0"+ Caliche, hard
 base of this zone not penetrated
 base of hole, elevation = 4,998'

Drill Hole 11: Location - N.W. part of Los Griegos 7½' quadrangle. Drill hole located about 4,325' south of north quad. boundary (35°15') and 6,100' east of west quad. boundary (106°45'). Elevation = 5,630'.

Description - 0 - 6'0" Sand, gravel layer at 2'-3'
6'0" - 10'0" Caliche, firm
10'0" - 12'0" Sand, loose

Drill Hole 12: Location - S.W. part of Sky Village 7½' quadrangle. Drill hole located about 3,000' north of south quad. boundary (35°15') and 10,500' east of west quad. boundary (106°52'30"), N.E. corner Sandia Blvd. and 52nd St. Elevation = 6,117'.

Description - 0 - 13'0" Sand, loose, occasional pebbles
13'0" - 20'0" Sand and clay, alternating layers
20'0" - 41'0" Sand, loose
41'0" - 45'0" Sand and clay, alternating layers
45'0" - 47'9" Caliche, firm
base of unit not penetrated
base of hole, elevation = 6,069'

Drill Hole 13: Location - N.W. part of Volcano Ranch $7\frac{1}{2}'$ quadrangle. Drill hole located about 625' south of north quad. boundary ($35^{\circ}15'$) and 14,375' east of west quad. boundary ($106^{\circ}52'30''$). Elevation = 6,035'.

Description - 0 - 3'6" Sand, loose

3'6" - 5'0" Sand, calcareous, firm

5'0" - 7'9" Sand, pebbly, loose

7'9" - 9'0" Sand, calcareous, firm

9'0" - 12'6" Caliche, pebbly, hard

12'6" - 14'0" Sand, pebbly, calcareous,

firm to loose

14'0" - 17'0" Sand, pebbly, loose

base of unit not penetrated

base of hole, elevation = 6,018'

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