

SUMMARY
DRILLING LOG OF HUFFMAN BUSINESS PARK WELL

<u>DEPTH (ft.)</u>	<u>MATERIALS</u>
0 - 3	Gravel, sandy silt
3 - 15	Silty Sand with gravel
15 - 42	Gray silt, little sand or gravel
42 - 49	Silty gray-blue clay, cemented gravel
49 - 77	Silty sand & gravel
77 - 89	Gray clay, sand & gravel (79', bailed 75 gpm for 5 min., drawdown from 39' static level to bottom of well)
89 - 104	Cemented sand and gravel with silty gray clay
104 - 170	Gray clay
170 - 184	Gray clay, silt, little gravel
184 - 190	Hard pan
190 - 192	Gray silt and gravel (192', bailed 35 gpm for 4 min., 23' drawdown, static level 63')
192 - 205	Silty sand and gravel
205 - 217	Silt, little gravel
217 - 221	Silt (heaving)
221 - 224	Tight silty sand & coarse gravel (223', bailed 36 gpm for 5 min., 50' drawdown, static level 75')
224 - 226	Silt
226 - 231	Gray clay and silt with some sand & gravel
231 - 233 1/2	Loose sand & gravel, little silt (233 1/2', bailed 44 gpm for 9 min., 61 1/2' drawdown, static level 63 1/2')
233 1/2 - 236 1/2	Silty sand and gravel, heaving materials
236 1/2 - 289	Gray clay, silt
289 - 341	Gray silty clay
341 - 392	Gray silty clay, little gravel
392 - 396	Gray silty clay with gravel
396 - 400 1/2	Cemented clay and gravel with silty sand (399', bailed 7 gpm for 15 min., 70' drawdown, static level 90')
400 1/2 - 405	Silty sand & gravel with clay lenses
405 - 407	Hard pan
407 - 420	Gray silty clay, some sand & gravel
420 - 430	Gray silty clay, little gravel
440 - 493	Blue-gray silt & clay, little gravel
493 - 523	Gray sticky clay
523 - 550	(Gray clay, little gravel (casing goes to 548'))

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October 9, 1974

AS-BUILT REPORT
WATER WELL AT HUFFMAN BUSINESS PARK

TOTAL DEPTH: 550 Feet
CASING SIZE: 8 inch (0' to 300'), 6 inch (300' to 550')
LOCATION: S.E. Corner of Tract A, Huffman Business Park
(Temporarily named Southpark Industrial Subdivision)
DRILLER: Clemenson Drilling
OWNER: Central Alaska Utilities, Inc.

The contractor moved a cable tool rig on the site April 5, 1974, and began drilling that day. This well was started with 30' of 10" surface casing at which point drilling continued with 8", schedule 40, casing to the contract depth of 250'. A change order was then written to drill and case an additional 50' of 8" to the 300' depth. A second change order was then issued to line the 8" casing with 6", schedule 40, casing and drill and case an additional 200' of 6" to the 500' depth. A third change order was then written to drill and case an additional 50' of 6" to the 550' depth. Drilling was completed at this depth on May 24, 1974.

No sources of water of any commercial significance were located. Minor water producing zones were encountered at depths of 79', 192', 223', 233-1/2' and 399' but only indicated limited quantities of water. These zones were test bailed at rates ranging from 7 gpm to 75 gpm with a drawdown of water in the casing ranging from 23' to complete drawdown (see attached summary for further information). The static water level in the casing during the testing of these zones was between 39' and 80' from the surface.

At the 550' depth it was decided to terminate the drilling and salvage approximately the upper 300' of 6" casing which lined the 8" casing. Statewide Blasting attempted to cut the casing with a 6" shaped charge at the 297' depth. They did not get a good cut so a second cut was made successfully at 290'. The upper 290' of 6" casing was then removed. The well was left with about 4' of 8" casing above the surface and a cap welded in place.

Attached is a summary of materials and conditions recorded during the drilling. The complete set of drilling logs is available in the job file at DOWL Engineers.



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