

LOG AND CORE RECORD OF OIL OR GAS WELL
 (Submit in duplicate)

In compliance with rules and regulations pursuant to ORS 520.095 (Chapter 667 OL 1953).

Operator REICHHOLD ENERGY CORPORATION Field Marion County, Oregon

Well No. "N.N.G.-Merrill" #1, Sec. 24, T. 8 S., R. 4 W., W. B. & M.

FORMATIONS PENETRATED BY WELL

Depth to		Thickness	Drilled or Cored	Recovery	Description
Top of Formation	Bottom of Formation				
					<u>WELEX SIDEWALL SAMPLES</u>
			3405'	1"	<u>Sand</u> , light gray, soft to easily friable, very fine, slightly silty, common black grains, locally very thin carbonaceous material in laminae, no petroleum stain, odor, or fluorescence, not calcareous.
			3417'	3/4"	<u>Sand</u> , light gray, similar to last above, but easily to moderately friable and generally fine grained, no petroleum stain, odor, or fluorescence, not calcareous.
			3426'	3/4"	<u>Sand</u> , as last above, very slightly limey.
			3476'	1-1/4"	<u>Sand</u> , light gray, very fine-fine grained, easily friable, scattered dark grains, scattered fine mica flakes, fair porosity & permeability, slightly limey, no petroleum stain, odor, or fluorescence.
			3492'	3/4"	<u>Sand</u> , as last above.
			3568'	1-1/4"	<u>Silty Sandstone</u> , mottled dark-medium-light gray, generally very fine grained sand with much siltstone in matrix including mottles of dark gray sandy siltstone, very low permeability to tight, not calcareous.
			3586'	1/2"	<u>Sand</u> , dull light gray, very fine, silty, occasional mottles of medium gray silty sand, probably very low permeability, not limey, no petroleum stain, odor, or fluorescence.
			3717'	Fragments	<u>Silty Sand</u> , as last above, but somewhat limey, no petroleum stain, odor, or fluorescence.

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Top of Formation	Bottom of Formation				
					<u>WELEX SIDEWALL SAMPLES -2-</u>
			3739'	1"	Sand, light gray, easily friable, very fine-fine grained, well sorted, common black mineral grains, common fine micaceous flakes, minor clay matrix, not limey, no petroleum stain, odor, or fluorescence.
			3749'	1-1/4"	Sand, as last described.
			3956'	1/4"	Sandstone, light gray, firm to hard, very fine and silty, considerable white clay matrix, very calcareous, probably tight.
			3978'	3/4"	Sand, dull light gray, very fine, very silty, faint laminae of medium gray siltstone with carbonaceous fragments, probably very low permeability, no petroleum stain, odor, or fluorescence.
			4294'	1"	Sandstone & Siltstone, interbedded, sandstone-dull light gray, very fine to fine, silty, irregularly interbedded with siltstone-medium to dark gray with common fine sand grains, probably tight, no petroleum stain, odor, or fluorescence.
			4484'	Fragments	Sand, light gray, easily friable, fine grained, well sorted, occasional black grains, good porosity & permeability, not limey.
			4512'	Fragments	Sand, similar to last described.
			4521'	1"	Sand, dull light gray, fine to medium grained, easily friable, slightly silty, includes fragments to 1/4" of lignite, probably good porosity & permeability, not limey, no petroleum stain, odor, or fluorescence.

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Depth to		Thickness	Drilled or Cored	Recovery	Description
Top of Formation	Bottom of Formation				
					<u>WELEX SIDEWALL SAMPLES -3-</u>
			4557'	Fragments	Sand, light gray, very fine-fine grained, easily to moderately friable, slightly silty, scattered black grains, fair porosity & permeability, no petroleum stain, odor, or fluorescence.
			4570'	1-1/2"-3/4"	Sand, similar to last described, probably fair porosity & permeability, 3/4" sandy claystone, medium-dark gray, not limey, no petroleum stain, odor, or fluorescence.
			4651'	3/4"	Sand, as last described, but somewhat more clayey, no petroleum stain, odor, or fluorescence.
			4708'	1"	Sand, as last described, but somewhat cleaner, probably fair porosity & permeability.
			4730'	1-1/2"	Sand, as last described, not limey, no petroleum stain, odor, or fluorescence.
			4743'	1-1/4"	Sand, as last described, not limey, no petroleum stain, odor, or fluorescence.
			4798'	3/4"	Sand, light gray, easily friable, very fine-fine grained, somewhat clayey, irregular laminae consisting of abundant black mineral grains, not limey, probably fair porosity & permeability, no petroleum stain, odor, or fluorescence.
			4842'	Fragments	Sand, light gray with mottles & streaks of medium gray sandy siltstone, no petroleum stain, odor, or fluorescence.

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
1069 St. Office Building Portland 1, Oregon

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Top of Formation	Bottom of Formation				
					<u>WELEX SIDEWALL SAMPLES -4-</u>
			4871'	3/4"	<u>Sand</u> , light gray, easily friable, very fine, well sorted, common black mineral grains, fairly clean, probably fair porosity & permeability, not limey.
			4882'	1/2"	<u>Sand</u> , as last above but slightly silty, not limey, no petroleum stain, odor, or fluorescence.
			4929'	1"	<u>Sand</u> , light gray, easily friable, very fine-fine grained with some medium grains, slightly clayey, probably fair porosity & permeability.
			4948'	3/4"	<u>Sand</u> , as last described, but slightly more clayey, no petroleum stain, odor, or fluorescence.
			4974'	1-1/4"	<u>Sand</u> , light gray, easily friable, very fine to scarcely medium, common black grains, slightly clayey, not limey, probably fair porosity & permeability, no petroleum stain, odor, or fluorescence.
			4998'	1"	<u>Sand</u> , light dull gray, easily friable, very fine, near silt size, silty, probably low permeability or tight, not limey, no petroleum stain, odor, or fluorescence.
Described by Wes Bruer, 10/13/75					