

THE UNIVERSITY OF TEXAS  
BUREAU OF ECONOMIC GEOLOGY  
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The mimeograph circulars issued from the Bureau of Economic Geology contain the record of cores and cuttings from wells received and described in the Bureau. In some instances driller's logs and other data are given although it is usually impracticable to include logs of all wells, the logs given being selected as representative of the county or area to which the circular relates. The elevations given are for the most part those reported with the driller's log. In some instances the elevation given, as indicated, is that obtained from the location of the well on the topographic map. In all cases the elevation is to be regarded as approximate only.

E. H. Sellards.

WELL RECORDS OF REEVES COUNTY

Huling-Ross 1, Producers Oil Company.

Located in west half of Section 16, Block 59; drilled by cable rig, 1914.  
Elevation 3160 feet.

Description of samples by J. A. Udden.

Depth in feet

Light gray anhydrite containing small streaks and specks of dolomite. *****	2000
Gray anhydrite containing some dolomite.	2050
Gray anhydrite containing dolomite which occurs in yellow layers and irregular tracts in thin section. *****	2100
White granular anhydrite.	2150
Thinly laminated gray anhydrite. Many of the cuttings are thin plates, some parallel and some vertical to the lamination. Laminations are marked by the presence of yellowish dolomite.	2200
Gray anhydrite.	2250
Gray anhydrite. The larger pieces show lamination with darker and lighter layers. Oil was noted when heated in closed tube.	2300
Gray anhydrite. *****	2350
Gray granular anhydrite showing laminations of darker and lighter layers, the darker containing more dolomite.	2400
Granular anhydrite.	2450

(Reeves County)

Depth in feet

A thinly laminated gray rock consisting of granular anhydrite and carbonates, probably a mixture of limestone and dolomite. 2500

Granular anhydrite. The larger pieces show lamination with alternate light and dark layers running at oblique angles to the longer diameter of some fragments. 2550

Granular anhydrite. The larger pieces show light and dark laminations from 0.2 to 1 mm. in thickness. Bituminous fumes were given off when heated in a closed tube. 2600

Gray dolomitic anhydrite. Bituminous fumes were given off when heated in a closed tube. 2650

Gray granular laminated anhydrite containing some dolomite and apparently some shale. 2700

Gray granular anhydrite, containing some dolomitic material. Note on label says "Top of lime." 2715

Mostly soft yellow dolomite and some anhydrite. 2750

Gray granular anhydrite containing some calcareous matter. Label is marked "gas". 2785

Gray granular anhydrite, some gray limestone, and some yellow dolomite showing small peculiar reliefs on the bedding planes. Considerable pyrite is present, partly incrusting surfaces on some fragments. \*\*\*\*\* 2800

Gray anhydrite and dolomite. 2850

Laminated gray anhydrite and some soft yellow dolomites in large fragments. 2900

Laminated gray anhydrite and some soft yellow dolomite in large fragments. 2950

Laminated gray anhydrite. 3000

The sample consists of some black silt, a thinly laminated limestone with vertical cleavage, and a soft granular sandy gray dolomitic limestone. \*\*\*\*\* 3050

Fine gray silty quartz sand containing rare scales of mica. 3100

Gray, fine textured quartz sand, mostly less than one-eighth mm. in diameter. 3150

Gray sandy silt and some dolomitic material. 3200

Sandy dolomitic silt with some impregnating black bituminous material. \*\*\*\*\* 3250

Gray, fine sand and some dolomitic rock. 3300

White quartz sand from 1/16 to 1/4 mm. in diameter.	3400
Dark, almost black, greenish shale containing dolomitic material and sand. *****	3450
Fine light gray quartz sand with some dolomitic material.	3500
A sandy gray silt, micaceous and containing some dolomitic material.	3550
Black sandy dolomitic silt, and gray fine sandy rock. *****	3600
Sandy dolomitic and silty rock. Some is gray, some black. Scales of mica noted. The black rock distills much oil. The texture of the rock is fine and close.	3650
Gray sandstone of fine texture, impregnated with some dolomitic material.	3700
Shaly, dolomitic, fine gray sandstone, containing some mica scales.	3720
Sandy and shaly gray dolomite.	3725
Dolomitic and shaly gray sandstone, slightly bituminous.	3730
A black rock consisting of fine sand cemented by bituminous and dolomitic material. Distills very much oil.	3735
Dolomitic and shaly sandstone, some gray, some black. *****	3740
Gray, fine sand cemented by dolomitic material.	3745
Gray rock consisting of fine sand in a cement of dolomite.	3750
Sandy material, part of which is in a cement of mainly dolomite and part in a cement of mainly bitumen. *****	3755
Dark gray rock consisting of quartz grains in a cement partly composed of dolomite, but mostly of bituminous matter. *****	3760
Dark gray rock consisting of quartz grains, some in a cement of dolomite, but mostly in a cement of bitumen. *****	3765
Dark gray rock containing quartz grains, cemented together mostly by bitumen, but also by some dolomitic material. *****	3770
Black rock containing quartz grains cemented together with bitumen and some dolomite. *****	3780
Dark gray rock containing quartz grains cemented together. Most of the cement is bitumen and forms a black mass, some is dolomite. Oil is distilled off when heated in closed tube.	3785

Dark gray rock containing quartz grains cemented together with bitumen and dolomitic material. *****	3790
Gray rock containing quartz grains cemented together by more dolomite than bitumen. *****	3795
Gray silt cemented together with dolomite and a little bitumen. Bituminous fumes were given off when heated in closed tube.	3800
Dark gray silt cemented together with dolomite and bitumen. *****	3805
Black silt cemented together with bitumen and dolomite. *****	3810
Dark gray silt cemented with bitumen and dolomite. *****	3815
Black rock containing silt cemented together with bitumen and dolomite. Oil distilled off.	3820
Dark gray silt cemented with bitumen and dolomite. Oil distilled off when heated in a closed tube. Pyrite and mica noted.	3825
Fine yellow sand, and black silt cemented together with bitumen. Oil is distilled off when heated in a closed tube.	3830
Gray and some black silt, cemented together by bitumen and dolomite. Oil is distilled off when heated.	3835
Very dark gray silt cemented together with bitumen and dolomite. Oil is distilled off when heated in a closed tube.	3840
Some dark and some light gray silt cemented together with bitumen and dolomite. Oil was distilled off when heated.	3845
Yellowish-gray sandy silt cemented together with dolomite and a little bitumen.	3850
Gray silt, cemented together with dolomite and a small amount of bitumen. Bituminous fumes distilled off, when heated in a closed tube.	3855
Sandstone cemented by dolomite. Bituminous fumes were given off when heated in a closed tube.	3860
Black rock consisting of sandy silt cemented together with bitumen and a little dolomite. *****	3865
Black rock consisting of silt cemented together with bitumen and dolomite. *****	3870
Almost black rock consisting of quartz grains cemented together with bitumen and some dolomite. *****	3875
Very dark gray rock consisting of sand and silt cemented with bitumen and dolomite. *****	3880

Black rock consisting of sandy silt grains in a cement of bituminous and dolomitic material. *****	3885
Some gray and some black rock consisting of quartz grains in a cement of bitumen and dolomite. *****	3890
Gray sandy silt in a cement of dolomite and some bitumen. *****	3895
Light gray rock consisting of silt cemented together with dolomite and some bitumen. *****	3900
Gray rock consisting of silt cemented together with dolomite and some bituminous matter. *****	3905
Gray rock consisting of silty sand slightly cemented with dolomite and some bitumen. *****	3910
Bluish-gray rock consisting of silt in a scant cement of dolomite. A little mica was noted. Sulphur and bituminous fumes were given off when heated in a closed tube.	3915
Gray rock consisting of silt cemented together with a little dolomite. Some mica noted. *****	3920
Gray sandstone of fine silty texture containing a little dolomite and a few scales of mica. *****	3925
A gray silty fine sandstone containing a little dolomite. Mica was noted. Yields sulphur and bituminous fumes when heated in a closed tube.	3935
A gray sandstone of fine texture containing dolomite and some mica. *****	3940
Black rock of fine texture consisting of sandy silt cemented together with bitumen. Some mica was noted. *****	3950
Black and dark gray rock consisting of sandy silt cemented together with bitumen and a little dolomite. Contains some mica. Yields oil when heated.	3960
Dark gray rock consisting of silt cemented together with bitumen and some dolomite. *****	3965
Quartz sand, some grains of which are cemented together with dolomite and some with bitumen and dolomite. *****	3975
Gray silty sandstone containing dolomite and a little mica. Yields bituminous fumes when heated in a closed tube.	3970
Gray and black rock consisting of sandy silt cemented with bitumen and dolomite. *****	3985
Dark gray rock composed of sandy silt cemented with bitumen and dolomite. Yields oil when heated.	3990

Black rock of fine texture consisting of silt cemented with bitumen and dolomite. *****	3995
A black rock consisting of calcareous silt impregnated with asphaltic material. Pyrite noted. *****	4005
Dark gray rock consisting of sandy silt in a cement of bitumen and dolomite. *****	4020
Dark and light gray rock consisting of silt in a cement of dolomite and in bitumen. A few flakes of mica noted. *****	4025
Gray rock consisting of sandy silt in a cement of dolomite and some bitumen. *****	4030
Dark and light gray sandy silt in a cement of dolomite. *****	4035
Gray rock containing sandy silt in a cement of dolomite and bitumen. *****	4040
Dark gray and light gray sandstone containing dolomite. *****	4045
Fine grained white sand and dolomitic material. *****	4055
Dark gray sandy silt in a cement of bitumen and dolomite. *****	4065
Dark gray rock of fine texture composed of silt in a cement of bitumen and dolomite. *****	4115

Note made by J. A. Udden, January 15, 1918: Twenty-three samples representing the rocks penetrated from 2000 to 3000 feet below the surface, consist of anhydrite, in the main; intimately associated with more or less dolomite, and having mostly a thinly laminated structure, such as is seen in parts of the Guadalupian formation. Some fragments showed that this rock has in places been brecciated.

At 2700 there is some nearly pure dolomite. Near 2800 there is a gray limestone containing some foraminifera and fragments of small shells and other fossils. In this part of the section the rock is otherwise uniform in character, being anhydrite and dolomite. Below this depth the samples from 3050 to 4115 feet consist of a rock which may be described as dolomite containing more or less fine sand, silt, and clayey material in which there is no marked lamination. The range of variation in the composition of this rock is from nearly pure dolomite containing only a small amount of siliceous material to pure sand, as at 3100, 3150, 3400, and 3500 feet below the surface. At various depths, this rock has been impregnated with much bituminous material, so as to be black. This condition was noted at 3050, 3250, 3450, 3600, 3735, 3755-3785, 3805-3820, 3840, 3860-3885, 3950, 3990-4000, 4065, and 4115 feet, making a thickness of nearly 100 feet of black asphaltic rock. Much of the other sandy dolomite is to a less degree impregnated with hydrocarbons, so that nearly all the samples from this part of the well will yield bituminous fumes and even drops of oil when heated in a closed tube.

A mixed sample of this black rock taken from five different depths has been dis-tilled to determine the hydrocarbon content. It was found to contain 14.2 per cent of volatile combustible hydrocarbons. This includes an amount of oil equivalent to 2.4 gallons per ton of the rock.