

THE UNIVERSITY OF TEXAS
BUREAU OF ECONOMIC GEOLOGY
AUSTIN, TEXAS

Mimeograph Circular No. 20
May 1929

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 drillers 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 drillers 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

RECORD OF PETERSON WELL IN EDWARDS COUNTY

Peterson Well No. 1, Transcontinental Oil Co.

Located on Diamond Ranch, in NW corner survey 82, H.E. & W.T. Ry. Co., 6 miles N. and 12.4 miles E. of Rock Spring. Elevation 2360 feet.

Drillers log

	<u>Depth in</u> <u>Ft. to:</u>		<u>Depth in</u> <u>Ft. to:</u>
limestone	310	sand & shale, light color	2930
open lime, water un-		dark slate	2950
bailable	320	slate and sand	3130
limestone with crevices	500	slate and grit	3170
light green shale	580	slate	3510
broken shale	970	rotten slate	3590
water sand	1022	broken slate	3710
sand, shells	1075	shell	3713
broken shale	1108	slate and shale	3810
shale and sand shells,		shell	3814
reddish color	1140	slate	3885
black shale	1210	sand	3850
shell	1214	sand	3940
black shale	1270	slate	3962
black slate	1495		
black shale	1927	About 100,000 ft. wet gas at 3885'	
gritty lime	1937	Hole plugged 3962'	
slate, dark color	2050	Casing	
dark color shale	2400	10" set 965'	
slate	2570	8" set 1227'	
slats and sand	2630	6-5/8" set 2570'	
slate	2690		

Abandoned August 1920.

Description of samples by H. T. Kniker; submitted by Clyde H. Bennett.

	<u>Depth in Feet</u>
A white and yellowish foraminiferal (?) limestone - - - - -	215
Two kinds of limestone, a gray porous limestone containing fine sand and a pink compage limestone - - - - -	500-548
Gray and white foraminiferal (?) limestone containing sand - - -	548-552
Fine grained light gray limestone containing some sand and small black specks - - - - -	650
Fine grained light gray and gray limestone containing some sand and small black specks - - - - -	670
Fine grained light gray and some dark gray limestone and a few grains of translucent colorless flint - - - - -	690
Gray and white foraminiferal limestone containing sand - - - - -	710
From light gray to dark gray limestone and few fragments of concretions of fibrous gypsum - - - - -	810
Gray and white very fine grained fossiliferous limestone. Some pyrite and a small amount of calcite and quartz grains were noted - -	830
Gray fossiliferous limestone containing black specks and some sand - - - - -	850
Very fine grained white limestone and dark gray limestone with dark specks - - - - -	870
Light to dark gray limestone containing black specks and some white fine grained limestone - - - - -	890
White and gray limestone containing small black specks - - - - -	910
Light gray to dark gray limestone - - - - -	930
Light gray and dark gray limestone and some fine sand, calcite, and pyrite. Bathocypris present. - - - - -	950
Limestone fallen down from above and clear rounded quartz sand with the mechanical composition about as follows: very coarse sand, 1%; coarse sand, 5%, medium sand, 18%; fine sand, 68%; very fine sand, 6%.	970
Porous yellow in part dolomitic limestone and a rock consisting of very fine sand grains cemented with a dolomitic matrix - - - - -	990-1010
Red sandstone consisting of rounded sand grains and having a white, yellow, pink, or black calcareous cement - - - - -	1016
Yellow and some loosely cemented red sandstone consisting of clear well-rounded sand grains with a calcareous cement - - - - -	1030
Purplish red and yellow sandstone having well rounded grains loosely cemented with a calcareous matrix - - - - -	1070

Depth in Feet

White and yellow grained limestone, most being minutely silty, and some clear well-rounded sand grains - - - - -	1090
Red clay containing red sand and many fragments of pink limestone, the latter having probably fallen down - - - - -	1110
A small amount of calcite and some chert present. . . A fragment of shell was noted. Mechanical analysis of sand: find gravel trace; coarse sand, 8%; medium sand, 8%; fine sand, 72%; very fine sand, 12% - - - - -	1110
White and dark gray limestone, red and yellow chert, and sandstone with a white and yellow calcareous cement - - - - -	1130
Yellow clay silt. Washed material shows brown fine grained sandstone containing minute mica scales and yellow coarse sandstone - - -	1150
Fine grained light and dark yellow sandstone containing minute mica scales - - - - -	1170
Yellow clay silt - - - - -	1190
Dark gray silty shale containing minute mica scales and shreds of coaly material with some limestone which has probably fallen down from above - - - - -	1210
Gray silty shale and argillaceous sandstone, both minutely micaceous and containing coaly shreds - - - - -	1230
Gray sandstone and fine grained dark gray shale - - - - -	1250
Gray and brown sandstone containing an abundance of minute mica scales - - - - -	1290
Laminated soft dark gray, coarsely grained silty shale containing minute mica scales and coaly shreds - - - - -	1300-1390
Gray silty minutely micaceous shale containing coaly shreds. No fossils seen. In closed tube ammonia and faint bituminous odors were noted. - - - - -	1410-1450
Gray and some very dark gray silty shale, minutely micaceous and containing coaly shreds - - - - -	1470-1570
Gray silty shale and argillaceous sandstone, both minutely micaceous and containing coaly shreds - - - - -	1590
Black fine-grained slightly silty shale containing minute flakes of mica, shreds of coaly material and clay-iron-stone - - - - -	1610
Black fine-grained shale containing many sponge spicules and minute mica scales - - - - -	1630
Black fine-grained silty shale containing scattered sponge spicules, minute mica scales in abundance and coaly matter - - - - -	1650, 1670, 1690
Gray silty shale, black fine-grained shale, and some clay-iron-stone all having minute mica scales and coaly shreds - - - - -	1710, 1730

Dark gray rather coarse shale containing minute mica flakes and some coaly shreds - - - - -	1750
Dark gray coarsely crystalline silty shale containing minute mica flakes and shreds of vegetable matter - - - - -	1770, 1790, 1810
Dark gray even grained silty shale and clay-iron-stone, about one-third as much clay-iron-stone as shale being present - - - - -	1830
Gray silty, minutely micaceous shale having coaly shreds - -	1850
Dark gray silty shale of even texture containing minute mica scales and coaly shreds, and clay-iron-stone - - - - -	1870, 1890
Dark shale of even texture. Fumes of ammonia - - - - -	1910
Dark gray to black silty clay-iron-stone, some sandstone, and a few grains of finely crystalline gray limestone - - - - -	1930, 1950
Dark gray silty shale of even texture, clay-iron-stone, and a few grains of white limestone and pyrite - - - - -	1970, 1990, 2010, 2030
Black shale like that from the horizons just above, some fine sandstone, a trace of clay-iron-stone and calcite - - - - -	2050, 2070
Dark bluish gray to black minutely micaceous and silty shale - -	2090
Gray minutely micaceous and silty shale containing coaly shreds - - - - -	2110
Dark gray to black silty and minutely micaceous shale containing coaly shreds - - - - -	2170, 2190
Grayish black minutely micaceous and silty shale which grades into light gray argillaceous minutely micaceous sandstone, whose cement is at least in part dolomitic - - - - -	2210
Dark bluish gray arenaceous shale and gray fine-grained sandstone - - - - -	2230
Gray silty shale, black fine grained shale, gray slightly argillaceous sandstone, all containing coaly shreds and minute mica scales - - - -	2250
Gray slightly silty shale, some clay-iron-stone, and a trace of gray sandstone and brown fine-grained limestone - - - - -	2270
Bluish gray silty and minutely micaceous shale containing coaly shreds - - - - -	2290
Bluish gray slightly silty shale having minute mica scales and coaly shreds - - - - -	2310, 2350, 2370
Gray shale of even texture containing minute mica scales, coaly shreds, and some fine sand - - - - -	2410-2430
Very dark gray and gray shale of even texture, gray, silty shale, and grayish argillaceous sandstone - - - - -	2450, 2470

	<u>Depth in Feet</u>
Very dark gray minutely micaceous shale, a few grains of pyrite and grayish sandstone - - - - -	2490
Bluish gray shale of even texture containing minute mica scales, coaly shreds, and some fine sand - - - - -	
2510, 2530, 2550, 2570, 2590, 2610, 2630, 2650, 2670, 2690, 2710, 2730, 2750	
Dark gray silty shale and lighter gray argillaceous sandstone, both containing coaly shreds, minute scales of mica - - - - -	2770, 2790
Dark gray slightly silty shale and some light gray argillaceous sandstone, both containing coaly shreds and minute flakes of mica - - - -	2810, 2830
Dark gray to black slightly silty shale and brownish gray argillaceous sandstone all with coaly shreds and minute flakes of mica. No fossils seen - - - - -	2850
Brownish gray argillaceous sandstone containing minute mica scales and coaly shreds, and some dark gray shale - - - - -	2870
Very fine grained dark gray shale, gray silty shale, brownish gray argillaceous sandstone, and light gray sandstone, all containing coaly shreds and minute mica flakes. - - - - -	2890, 2910, 2930
Grayish black shale and a few fragments of gray sandstone and pyrite - - - - -	2950
Grayish black minutely micaceous shale and some clay-iron-stone -	2970
Very dark gray fine-grained shale and dark gray silty shale, both with minute flakes of mica and coaly shreds - - - - -	2990, 3010, 3030, 3050
Grayish black silty shale, some gray sandstone, and a few grains of pyrite - - - - -	3070, 3090
Grayish black minutely micaceous slightly silty shale, containing coaly shreds and showing iron stains - - - - -	3110, 3130, 3150, 3170, 3190, 3210
Very dark gray shale of even texture and few grains of sandstone and well-rounded sand - - - - -	3230, 3250
Very dark gray minutely micaceous shale of even texture - - - -	3270, 3290
Grayish black slightly silty shale, minutely micaceous and containing coaly shreds - - - - -	3310, 3330
Grayish black shale of even texture containing minute mica scales and coaly shreds - - - - -	3350
Very dark gray shale of fine texture, minutely micaceous and containing coaly shreds - - - - -	3370
Grayish black fine grained minutely micaceous shale. Ammodiscus (?) present - - - - -	3390

Depth in Feet

Black fine grained shale, dark gray silty shale and light gray sandstone which is partly argillaceous. . . . Faint bituminous and strong ammonia fumes noted in closed tube - - - - -	3410
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Dark bluish gray non-calcareous shale with a small amount of angular silty material and some fine quartz sand. The sand grains are worn and etched - - - - -	3700
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Dark bluish gray shale containing a small amount of silty material and some quartz sand, non-calcareous. The larger sand grains are worn and etched. No fossils noted. In closed tube very faint bituminous fumes and ammonia fumes were given off.- - - - -	3800
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Pennsylvanian. J. A. Udden.