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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

SOME WELL RECORDS IN TERRELL COUNTY

Downie 1, Pittsburgh Western Co.

Located on Blk. R-2, Section 36, G.C.S.F. Ry. Co. Survey. Elevation 3,115 feet. Abandoned.

Driller's Log

<u>Depth in feet to:</u>	<u>Depth in feet to:</u>
Surface drift . . . . . 15	Lime . . . . . 600
Sand and gravel . . . . . 50	Slate . . . . . 610
White lime. . . . . 80	Lime . . . . . 677
Blue shale. . . . . 90	Slate . . . . . 682
Shell and gravel. . . . . 100	Lime, water 750. . . . . 750
Lime and crevices . . . . . 350	Dark shale . . . . . 790
Lime, white and gray. . . . . 400	Lime . . . . . 805
Blue shale. . . . . 410	Shale . . . . . 815
Sand and water; water 425 . . 425	Lime . . . . . 870
Lime. . . . . 445	Lime, shells, and slate . . . . . 915
Sand. . . . . 525	Lime gray (hard) . . . . . 1135
Slate; water 555. . . . . 555	Lime gray. . . . . 1250

This well has 8' round wood conductor. 15" casing at 154'; water at 186'. 12" set 253'; 10" --807'; nine 10" x 20" bailed of water per hr. at 1,232'.

Description of samples by J. A. Udden; submitted by C. Downie.

Gray sand and black shale, of Pennsylvanian aspect, together with some fragments of white limestone apparently from the overlying Cretaceous. Msny mica scales were noted, as also were a few fragments of green shale. The sand is nearly all angular and is mostly from 1/8 to 1/2 mm in diameter. . . . . 720'

Folsom 1, Southwest Texas Oil & Gas Assn.

Located in center of Section 148, Blk. D-7, E. L. & R. R. Ry. Survey, 20 miles SE of Dryden: about 8 miles S. of Watkins. Elevation around 1,850 T. T. D. 3,480'.

Driller's Log

<u>Depth in feet to:</u>	<u>Depth in feet to:</u>		
Surface soil. . . . .	6	Blue clay. . . . .	1859
Hard lime . . . . .	45	Sharp sand . . . . .	1938
Brown shale . . . . .	52	Flinty red sand, very sharp caving .	1940
Blue mud . . . . .	55	Crevices (water) . . . . .	1950
Lime. . . . .	70	Grand field conglomerate, indications	
Brown shale and lime. . . . .	97	of extreme gas pressure with seam	
Shell lime. . . . .	100	of asphaltum . . . . .	1970
Shale and pyrites . . . . .	114	Brownish sand. . . . .	2015
Shale with petroleum scent. .	121	Dark shale with sand . . . . .	2027
Black shale (trace of oil). .	216	Black lime with asphaltum & streaks	
Crystallized lime . . . . .	354	of sand. . . . .	2127
Yellow lime . . . . .	388	Gray sand and lime . . . . .	2154
Gray lime . . . . .	480	Black lime and sand. . . . .	2162
White lime. . . . .	557	Black shale. . . . .	2167
Gray lime . . . . .	566	Sand and lime. . . . .	2190
Gray lime (show some gas) . .	598	Black lime and sand. . . . .	2205
Gray lime . . . . .	600	Blue sand and shale. . . . .	2223
Crystallized lime (water) . .	632	Brown sand . . . . .	2227
Gray lime . . . . .	692	Black lime . . . . .	2234
Gray sand . . . . .	697	Blue sand. . . . .	2238
Grayish lime. . . . .	819	Sand and lime. . . . .	2245
Dark shale. . . . .	839	Black lime (some asphalt). . . . .	2261
Lime shale streaks. . . . .	861	Shale and lignite. . . . .	2267
Yellow rotten shale (smells		Black lime & sand (showing oil,	
like decayed fish). . . . .	865	and some gas). . . . .	2271
White sand with lime. . . . .	870	Shale and sand . . . . .	2297
Yellow lime with dark shale		Black shale and sand . . . . .	2305
streaks . . . . .	883	Shale (oil showing--top slush) . . .	2328
White lime. . . . .	906	Shale and sand . . . . .	2393
Brown lime with blue shale		Extra black shale. . . . .	2450
streaks . . . . .	969	Shale and white lime . . . . .	2481
Shell lime. . . . .	978	Shale, lime, and clay. . . . .	2488
Grayish-yellow lime with dark		Black shale. . . . .	2564
shale streaks . . . . .	1029	Shale and sand . . . . .	2585
Shell lime with shale streaks	1039	Shale and sand (some oil showing). .	2608
Gray lime with shale streaks.	1155	Shale and green sand . . . . .	2624
Blue shale and lime . . . . .	1178	Sand and shale . . . . .	2645
Shaly blue clay with pyrites		Black sharp sand (good show of oil).	2653
and sand. . . . .	1186	Sand, gray and brown . . . . .	2669
White sand. . . . .	1195	Brown sand (oil show). . . . .	2684
Blue clay with pyrites. . . . .	1212	Blue sand and shale. . . . .	2700
Lime with little shale & sand	1250	Black shale. . . . .	2711
Sand (water). . . . .	1328	Blue shale . . . . .	2725
Lime with mud streaks & shale	1406	Black shale and sand . . . . .	2752
Blue mud with streaks of shale		Blue shale and sand. . . . .	2757
& lime. . . . .	1498	Black shale. . . . .	2765
Blue sandstone. . . . .	1519	Hard blue shale. . . . .	2768
Brown lime. . . . .	1736	Hard black sand. . . . .	2770
Blue clay streaks . . . . .	1760	Blue-black shale (soft). . . . .	2788
Limestone (water) . . . . .	1800	Hard sand. . . . .	2790
Sand, blue with lime streaks.	1841	Black shale and sand . . . . .	2796
Lime and shale with strong		Black lime and sand. . . . .	2805
gassy odor . . . . .	1854	Gray lime and sand . . . . .	2811

<u>Depth in feet to:</u>	<u>Depth in feet to:</u>
Blue lime and shale . . . . . 2850	Blue sandy shale with crystals . . . 3161
Hard, blue-black sand . . . . . 2870	Blue slimy shale & sand. . . . . 3200
Black lime and sand (soft). . . 2882	Black shale (salt water with oil showing) . . . . . 3255
Shale and sandy lime. . . . . 2916	Blue shale . . . . . 3258
Blue-black sandy shale. . . . . 2956	White sand and blue shale. . . . . 3264
Sharp sand and shale. . . . . 2970	Soft streak, yellow, more water. . . 3268
Blue shale. . . . . 2990	Gray sand and shale (foaming water looks like graphite) . . . . . 3295
Gray sand . . . . . 3000	Yellow sand. . . . . 3333
Gray sand and clay. . . . . 3015	Dark yellow sand (brown scum like oil stain in water). . . . . 3350
Blue shale and gray sand. . . . . 3031	Cream color. . . . . 3375
Blue shale and lime . . . . . 3045	Gray lime. . . . . 3417
Blue shale, sharp sand. . . . . 3060	White and blue slate . . . . . 3421
Blue-black sand . . . . . 3072	Lime and sand-greenish . . . . . 3440
Black sandy shale . . . . . 3087	Soft gray shale (caving) . . . . . 3450
Blue sandy shale (hole full of water). . . . . 3100	
Black shale (crystal) . . . . . 3131	
Soft streaks of gumbo . . . . . 3141	

Description of samples by J. A. Udden; submitted by J. T. Farley.

	<u>Depth in feet</u>
Dark gray shale, with some sand. Very small scales of mica quite abundant. The sand is mostly in grains less than $\frac{1}{2}$ mm in diameter, and all angular. Heated in closed tube it gives odor of sulfur dioxide and fumes of ammonia (Tesnus Formation) . . . . .	1970
Gray shale, moderately dark. . . . .	1970
Gray sandstone, mostly angular and containing occasional grains, mostly angular and with faces resulting from secondary crystallization	2130, 2131
Dark gray quartz sand containing some mica with some finely ground calcareous material. . . . .	2141'6"-2142
Grayish-brown micaceous sandstone. Aspect of sample is that of the Tesnus Formation of the Pennsylvanian. J. A. Udden . . . . .	2441'8"
Gray, slightly micaceous fine sand and silt, showing weak reaction for ammonia. Aspect of the Tesnus Formation. Pyrite present . . . . .	2159
Black schistose shale and quartzitic (?) sandstone. From the Tesnus (?). . . . .	2296-2297
Black schistose shale and gray quartzitic (?) sandstone. . . . .	2297-2298
Black shale, rather indurated. . . . .	2328.9-2329.9
A 1-1/2" by 1" by 3/4" fragment of black non-calcareous schist, and dolomite. Thin layers of the dolomite are interbedded with the schist. They are undulating and show the effects of pressure. At one end of the fragment the schist layers are seen to be curved and have highly polished (slickensided) joints. In thin section one fragment of the schist shows several very fine veins. The dolomite in section is seen to be rather coarsely crystalline and contains finely granular material. H. T. Kniker . . . . .	2800-2900

Depth in feet

Note: Following descriptions by E. B. Stiles; submitted by J. I. Grooe.

Very dark almost black schistose shale and highly indurated slightly coarser material. Some fragments of calcite from small veins noted. In thin section the shale is seen to be of very fine and even texture for the most part with occasional fragments of coarser texture. These contain sand grains and fine silt with some shale. The material has the appearance of having been subjected to considerable metamorphism. Some fragments suggest slickensided surfaces, but the material is too finely grained to show this distinctly. Ammonia fumes given off in closed tube . . . . . 2795-2805

Dark schistose shale like that from 2795-2805 . . . . . 2805-2819

Dark, fine, even-textured shale. . . . . 2819-2861

Similar to sample from 2819-61'. . . . . 2861-2880, 2880-2890

Dark fine, even-textured schist-like shale similar to material in previous samples . . . . . 2890-2948

Dark fine-textured schist-like shale . . . . . 2948-2952

Dark schistose shale of coarser texture than that in previous samples and indurated sandy schist. . . . . 2952-3001

Dark gray schistose material including fine-grained shale and sandy shale like that which has previously been described . . 3001-3027

Dark fine-textured schistose shale . . . . . 3027-3070

Black indurated schistose shale which is cut by many veins . . . 3070-3080

Dark gray impure quartzitic sandstone. . . . . 3080-3100, 3100-3108

Grayish translucent chert which has a close resemblance to shale in texture, and dark gray hard schist. . . . . 3108-3118, 3118-3153

Black indurated shale or schist and gray siliceous rock of fine texture. . . . . 3153-3188

Black schist, grayish quartzitic rock and some silver-gray schist . . . . . 3188-3222

Black schist and quartz apparently from veins. . . . . 3266-3290

Silvery gray fine-textured schist which is considerably softer than the materials in preceding sample. Strong ammonia fumes were given off in closed tube. . . . . 3290-3300

Precambrian probably equivalent to the Carrizo Formation.  
J. A. Udden, 1-24-21.

Greenish-gray fine-grained chlorite schist . . . . . 3300-3420

Depth in feet

Fine-grained greenish-gray chlorite schist like the sample previously examined from this well from the depth of 3300 to 3420 feet. The schist can be easily cut with a knife . . . . . 3457-3465

Note: Precambrian schist. D. D. Christner.

Greenish-gray fine-grained chlorite schist like that from 3457-3465 feet . . . . . 3470

Note: These samples are like the sample described from well from 3300 to 3420 feet. This material was determined by Dr. Udden to be Precambrian in age. D. D. Christner.

Dark dove-colored greenish-gray chloritic schist. Some of the larger fragments are seen to be cut by small quartz veins. The schist contains many small crystals of pyrite . . . . . 3470

Note: This sample is from the Precambrian. J. A. Udden.

Dark dove-colored, greenish chloritic schist. Some of the larger pieces are seen to be cut by small quartz veins. The schist contains many small grains of pyrite . . . . . 3475-3485

Note: Precambrian schist. J. A. Udden.

Dark greenish-gray chloritic schist of a very fine and even texture. Many of the fragments were seen to be cut by thin veins. Pyrite is present in the form of minute grains . . . . . 3550-3580

Note: Precambrian. D. D. Christner.