

**MEASURED SECTION, STOP 3****Primrose Sandstone Member of the Golf Course Formation and Lake Ardmore Sandstone Member of the Springer Formation (Academy Church Section)**

SE¼NW¼SE¼ and NE¼SW¼SE¼ sec. 1, T. 3 S., R. 2 E., Carter County (Gene Autry 7.5' quadrangle). Measured by LeRoy A. Hemish in the gully along the north-flowing tributary of Cool Creek (just west of the Burlington-Northern-Santa Fe railroad tracks), from the east-west property-line fence, downstream to the area covered by alluvium. Beds strike N. 85° E. and dip N. 5° W. at 80° (overturned).

*Thickness  
(feet)*

**GOLF COURSE FORMATION****GENE AUTRY SHALE MEMBER**

18. Shale, medium gray (N5), olive gray (5Y3/2) on fresh surfaces, noncalcareous; contains numerous light brown (5YR5/6) to moderate reddish brown (10R4/6), sideritic ironstone layers 1–3 in. thick; poorly exposed at contact with underlying unit ..... ~104.0
17. Shale, dark gray (N3), to olive gray (5Y4/1) on fresh surfaces, highly calcareous; contains numerous light gray (N7) to grayish orange (10YR 7/4) medium gray (N5) (where fresh), interstratified, very highly calcareous, planar-laminated siltstone layers that increase in frequency of occurrence in lower part of unit ..... 130.0
16. Siltstone, shaly, to very fine grained sandstone, olive gray (5Y4/1) to greenish black (5GY2/1), very thin bedded, parallel-bedded, planar- to irregular-bedded and ripple-bedded, very highly calcareous; top and base gradational ..... 20.0
15. Shale, olive gray (5Y4/1), very silty, hard, highly calcareous; includes some interstratified, well indurated, highly calcareous, very fine grained,

grayish red (10R4/2), weathered sandstone lenses and layers ≤1 ft thick ..... 54.0

**PRIMROSE SANDSTONE MEMBER**

14. Sandstone, grayish red (5R4/2), very fine grained, well indurated, very highly calcareous, thin-, ripple-bedded; some indistinct, small, trace fossils; forms resistant ridge at bend in creek .. 5.0
13. Shale, medium dark gray (N4) with moderate yellowish brown (10YR5/4) mottling, calcareous; includes scattered layers of ripple-laminated, olive black (5Y2/1) siltstone; poorly exposed ... 54.0
12. Limestone, brownish black (5YR2/1), very fine grained; fractured, with white (N9), crystalline calcite filling veins; exposed only in stream bed. 1.3
11. Covered interval ..... 8.5
10. Sandstone, brownish gray (5YR4/1) to olive gray (5Y4/1), very fine grained, glauconitic, highly calcareous, thin-bedded, parallel-bedded, ripple-bedded, lenticular-bedded, resistant; includes interstratified olive gray (5Y4/1), calcar-



Figure 15. Sandstone of the Primrose Member of the Golf Course Formation (Unit 10, Fig. 14) at Stop 3 exposed in the valley east of the church.

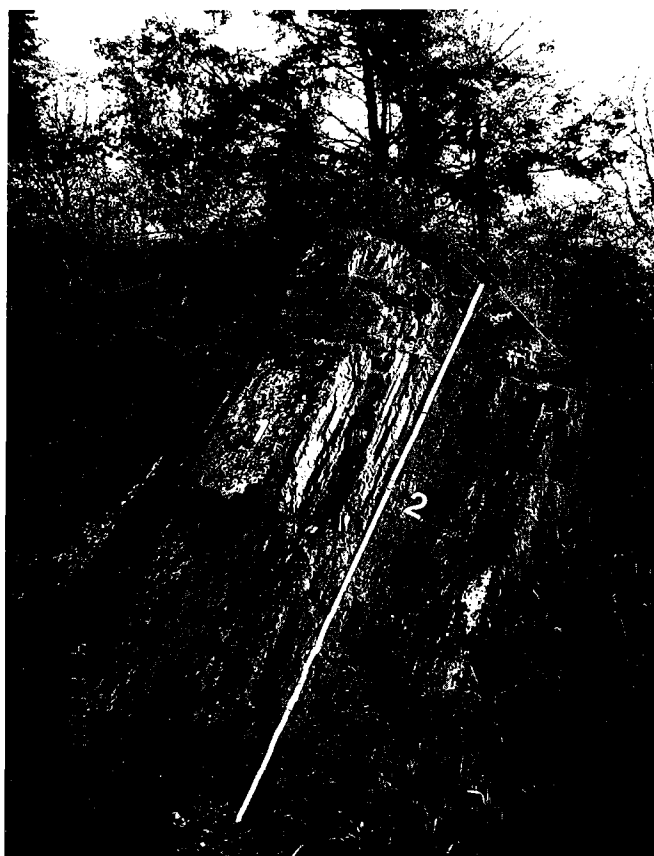


Figure 16. Thin-, parallel-, ripple-bedded sandstone beds (Unit 10, Fig. 14) of the Primrose Member of the Golf Course Formation are shown at the east side of the Burlington-Northern-Santa Fe railroad tracks east of the church at Stop 3. The beds strike N. 85° E. and dip N. 5° W. at 80° (overturned). In the Primrose, the sandstone intervals have multiple cycles that appear to become more coarse upward. Two possible cycles can be seen here. North is to the left in the photograph.