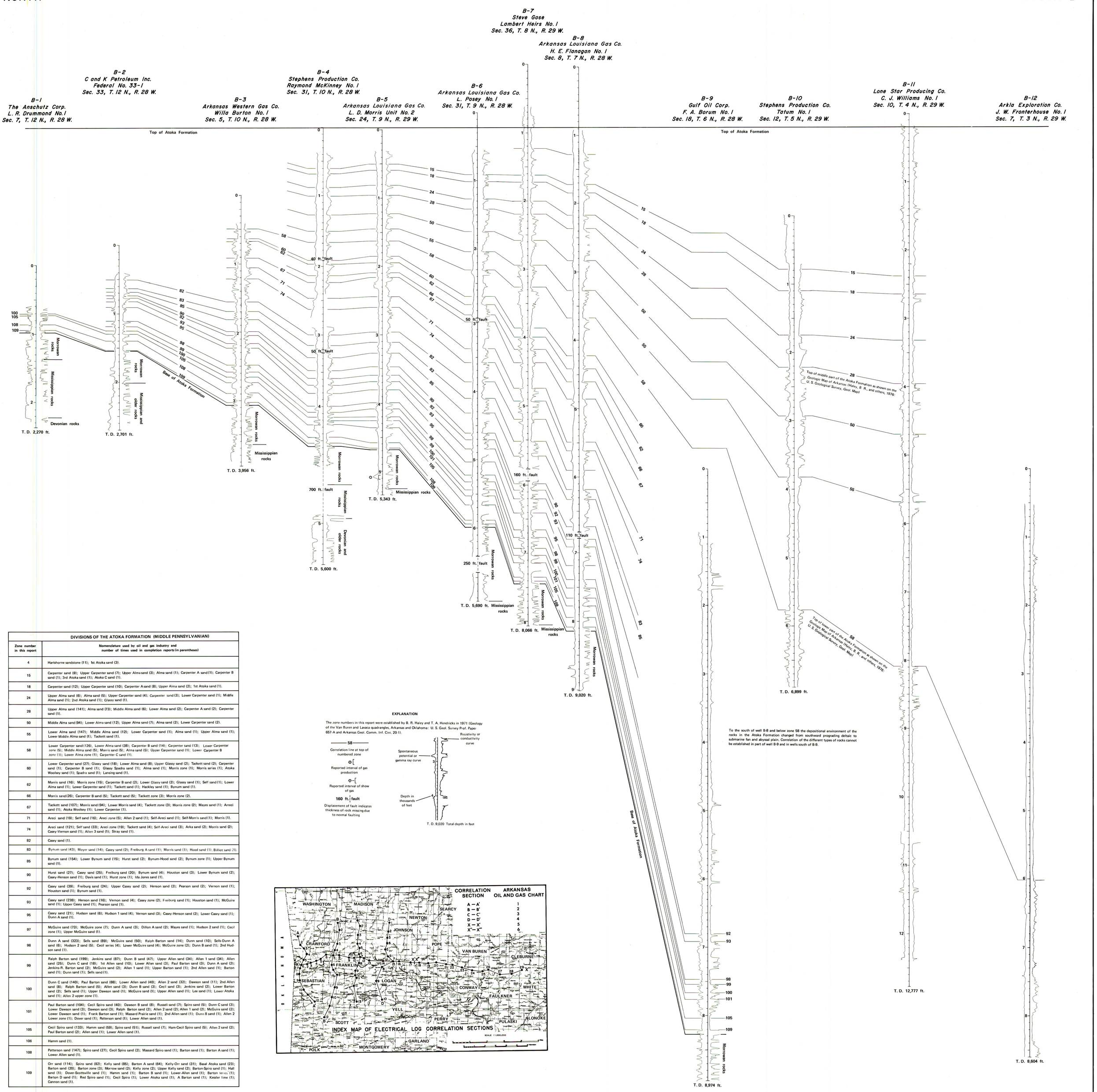
ARKANSAS GEOLOGICAL COMMISSION
NORMAN F. WILLIAMS, DIRECTOR

OIL AND GAS CHART 2

PREPARED IN COOPERATION WITH
THE U. S. GEOLOGICAL SURVEY

B NORTH

SOUTH B'



DIVISIONS OF THE ATOKA FORMATION (MIDDLE PENNSYLVANIAN)	
Zone number in this report	Nomenclature used by oil and gas industry and number of times used in completion reports (in parentheses)
4	Hartshorne sandstone (11); 1st Atoka sand (3).
15	Carpenter sand (9); Upper Carpenter sand (7); Upper Alma sand (3); Alma sand (1); Carpenter A sand (1); Carpenter B sand (1); 3rd Atoka sand (1); Atoka C sand (1).
18	Carpenter sand (12); Upper Carpenter sand (10); Carpenter A sand (8); Upper Alma sand (2); 1st Atoka sand (1).
24	Upper Alma sand (6); Alma sand (5); Upper Carpenter sand (4); Carpenter sand (3); Lower Carpenter sand (1); Middle Alma sand (1); 2nd Atoka sand (1); Glassy sand (1).
28	Upper Alma sand (141); Alma sand (73); Middle Alma sand (6); Lower Alma sand (2); Carpenter A sand (2); Carpenter sand (1).
50	Middle Alma sand (94); Lower Alma sand (12); Upper Alma sand (7); Alma sand (2); Lower Carpenter sand (2).
55	Lower Alma sand (147); Middle Alma sand (12); Lower Carpenter sand (1); Alma sand (1); Upper Alma sand (1); Lower Middle Alma sand (1); Tackett sand (1).
58	Lower Carpenter sand (126), Lower Alma sand (38); Carpenter B sand (14); Carpenter sand (13); Lower Carpenter zone (5); Middle Alma sand (5); Morris sand (5); Alma sand (5); Upper Carpenter sand (1); Lower Carpenter B zone (1); Lower Alma zone (1); Carpenter C sand (1).
60	Lower Carpenter sand (27); Glassy sand (18); Lower Alma sand (8); Upper Glassy sand (2); Tackett sand (2); Carpenter sand (1); Carpenter B sand (1); Glassy Spadra sand (1); Alma sand (1); Morris zone (1); Morris series (1); Atoka Woolsey sand (1); Spadra sand (1); Lansing sand (1).
62	Morris sand (16); Morris zone (15); Carpenter B sand (2); Lower Glassy sand (2); Glassy sand (1); Self sand (1); Lower Alma sand (1); Lower Carpenter sand (1); Tackett sand (1); Hackley sand (1); Bynum sand (1).
66	Morris sand (26); Carpenter B sand (5); Tackett sand (5); Tackett zone (3); Morris zone (2).
67	Tackett sand (107); Morris sand (94); Lower Morris sand (4); Tackett zone (3); Morris zone (2); Mayes sand (1); Arreci sand (1); Atoka Woolsey (1); Lower Carpenter (1).
71	Areci sand (19); Self sand (16); Areci zone (5); Allen 2 sand (1); Self-Areci sand (1); Self-Morris sand (1); Morris (1).
74	Areci sand (121); Self sand (33); Areci zone (19); Tackett sand (4); Self-Areci sand (3); Arka sand (2); Morris sand (2); Casey-Vernon sand (1); Allen 3 sand (1); Stray sand (1).
82	Casey sand (1).
83	Bynum sand (43); Moyer sand (14); Casey sand (2); Freiburg A sand (1); Morris sand (1); Hood sand (1), Billiot sand (1).
85	Bynum sand (154); Lower Bynum sand (15); Hurst sand (2); Bynum-Hood sand (2); Bynum zone (1); Upper Bynum sand (1).
90	Hurst sand (27); Casey sand (25); Freiburg sand (20); Bynum sand (4); Houston sand (3); Lower Bynum sand (2); Casey-Henson sand (1); Davis sand (1); Hurst zone (1); Ida Jones sand (1).
92	Casey sand (39); Freiburg sand (24); Upper Casey sand (2); Henson sand (2); Pearson sand (2); Vernon sand (1); Houston sand (1); Bynum sand (1).
93	Casey sand (238); Henson sand (16); Vernon sand (4); Casey zone (2); Freiburg sand (1); Houston sand (1); McGuire sand (1); Upper Casey sand (1); Pearson sand (1).
95	Casey sand (21); Hudson sand (6); Hudson 1 sand (4); Vernon sand (3); Casey-Henson sand (2); Lower Casey sand (1); Dunn A sand (1).
97	McGuire sand (73); McGuire zone (7); Dunn A sand (3); Dillon A sand (2); Mayes sand (1); Hudson 2 sand (1); Cecil zone (1); Upper McGuire sand (1).
98	Dunn A sand (323); Sells sand (89); McGuire sand (50); Ralph Barton sand (14); Dunn sand (10); Sells-Dunn A sand (6); Hudson 2 sand (5); Cecil series (4); Lower McGuire sand (4); McGuire zone (2); Dunn B sand (1); 2nd Hudson sand (1).
99	Ralph Barton sand (199); Jenkins sand (87); Dunn B sand (47); Upper Allen sand (34); Allen 1 sand (34); Allen sand (25); Dunn C sand (18); 1st Allen sand (10); Lower Allen sand (3); Paul Barton sand (3); Dunn A sand (2); Jenkins-R. Barton sand (2); McGuire sand (2); Allen 1 sand (1); Upper Barton sand (1); 2nd Allen sand (1); Barton sand (1); Dunn sand (1); Sells sand (1).
100	Dunn C sand (140); Paul Barton sand (88); Lower Allen sand (40); Allen 2 sand (32); Dawson sand (11); 2nd Allen sand (8); Ralph Barton sand (5); Allen sand (3); Dunn B sand (3); Cecil sand (3); Jenkins sand (2); Lower Barton sand (2); Sells sand (1); Upper Dawson sand (1); McGuire sand (1); Upper Allen sand (1); Lee sand (1); Lower Atoka sand (1); Allen 2 upper zone (1).
101	Paul Barton sand (104); Cecil Spiro sand (40); Dawson B sand (8); Russell sand (7); Spiro sand (5); Dunn C sand (3); Lower Dawson sand (3); Dawson sand (3); Ralph Barton sand (2); Allen 2 sand (2); Allen 1 sand (2); McGuire sand (2); Lower Dawson sand (1); Frank Barton sand (1); Massard Prairie sand (1); 2nd Allen sand (1); Dunn B sand (1); Allen 2 Lower zone (1); Dover sand (1); Patterson sand (1); Lower Allen sand (1).
105	Cecil Spiro sand (133); Hamm sand (69); Spiro sand (51); Russell sand (7); Ham-Cecil Spiro sand (5); Allen 2 sand (2); Paul Barton sand (2); Allen sand (1); Lower Allen sand (1).
106	Hamm sand (1).
108	Patterson sand (147); Spiro sand (27); Cecil Spiro sand (2); Massard Spiro sand (1); Barton sand (1); Barton A sand (1); Lower Allen sand (1).
109	Orr sand (114); Spiro sand (92); Kelly sand (85); Barton A sand (64); Kelly-Orr sand (31); Basal Atoka sand (23); Barton sand (20); Barton zone (3); Morrow sand (2); Kelly zone (2); Upper Kelly sand (2); Barton-Spiro sand (1); Hall sand (1); Dover-Scottsville sand (1); Hamm sand (1); Barton B sand (1); Lower-Allen sand (1); Barton series (1); Barton D sand (1); Red Spiro sand (1); Cecil Spiro (1); Lower Atoka sand (1); A Barton sand (1); Kessler lime (1); Cannon sand (1).

EXPLANATION

The zone numbers in this report were established by B. R. Haley and T. A. Hendricks in 1971 (Geology of the Van Buren and Lavaca quadrangles, Arkansas and Oklahoma: U. S. Geol. Survey Prof. Paper 657-A and Arkansas Geol. Comm. Inf. Circ. 20-1).

ELECTRICAL LOG CORRELATION OF THE ATOKA FORMATION ALONG SECTION B-B' IN FRANKLIN, LOGAN AND SCOTT COUNTIES, ARKANSAS

by
Boyd R. Haley
U. S. Geological Survey

1982

5 0 5 Miles

HORIZONTAL SCALE

DRAFTED BY DONNA L. GILBREATH AND APRIL ANN BREWER