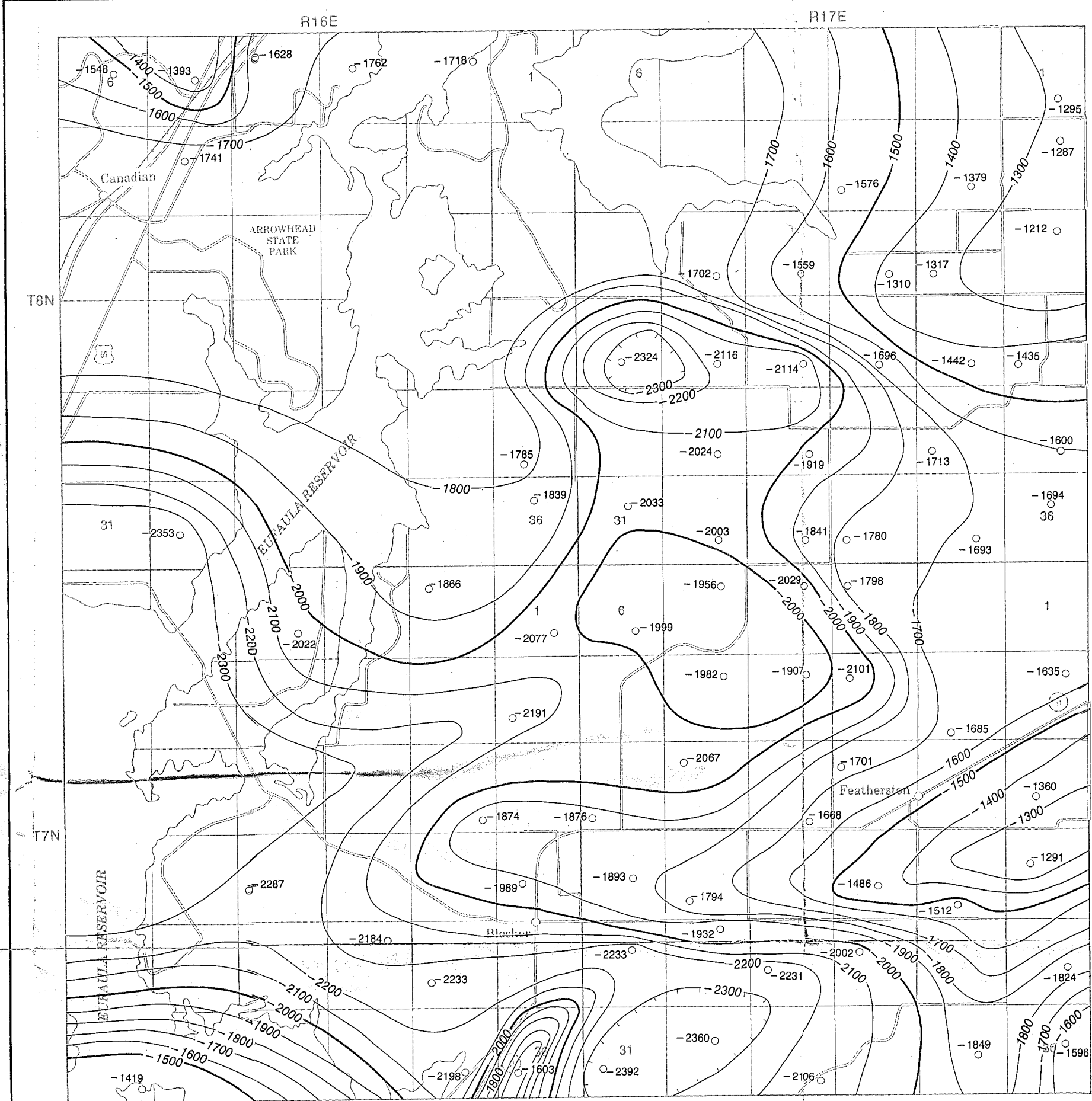


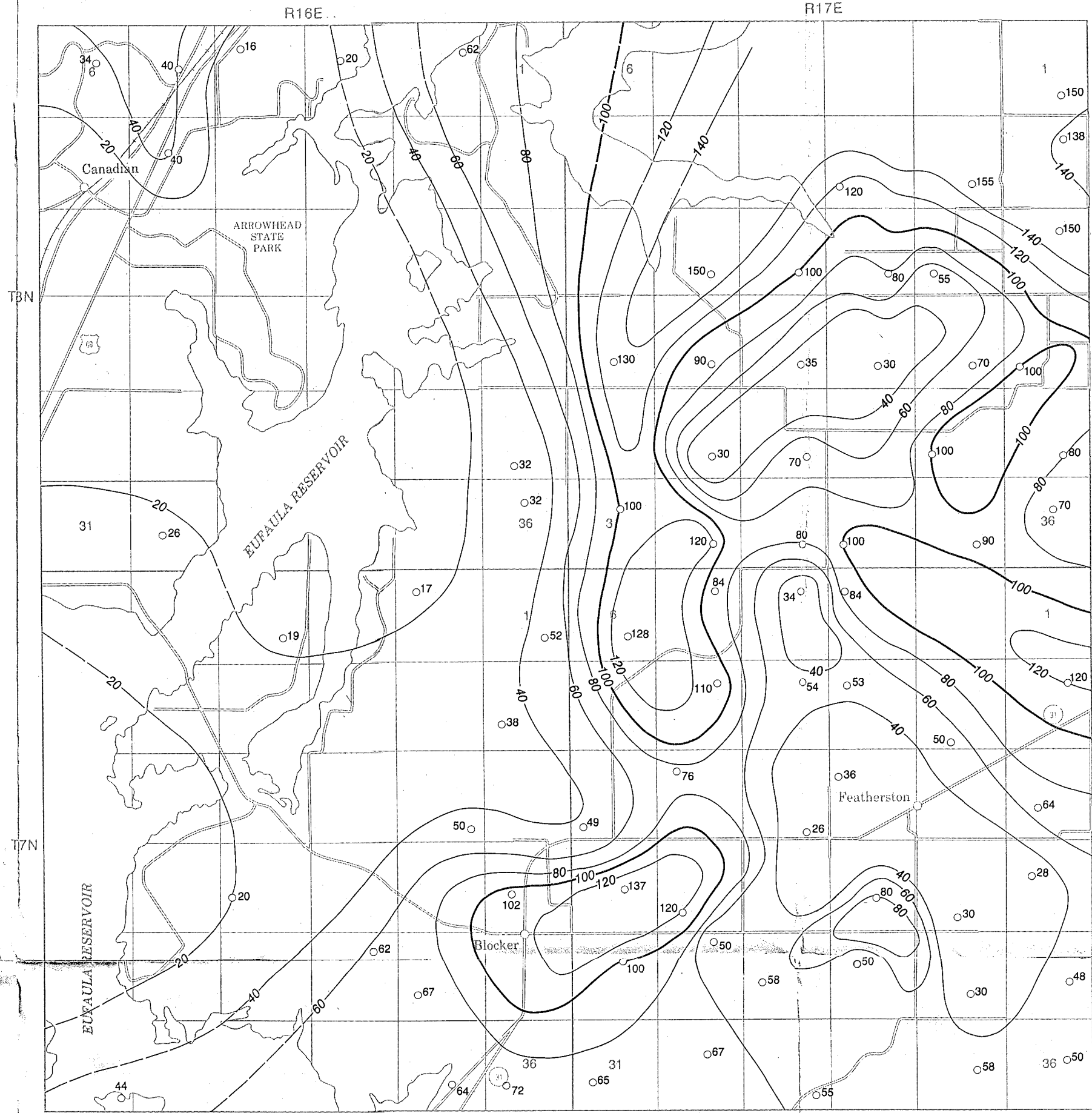


MAP A. STRUCTURE, TOP OF HARTSHORNE SANDSTONE

EXPLANATION

— 1300 —
Structure contour, in feet; contour interval, 100 feet; datum is sea level; hachures indicate structural depression

○ 1548
Oil or gas test; number indicates subsea depth

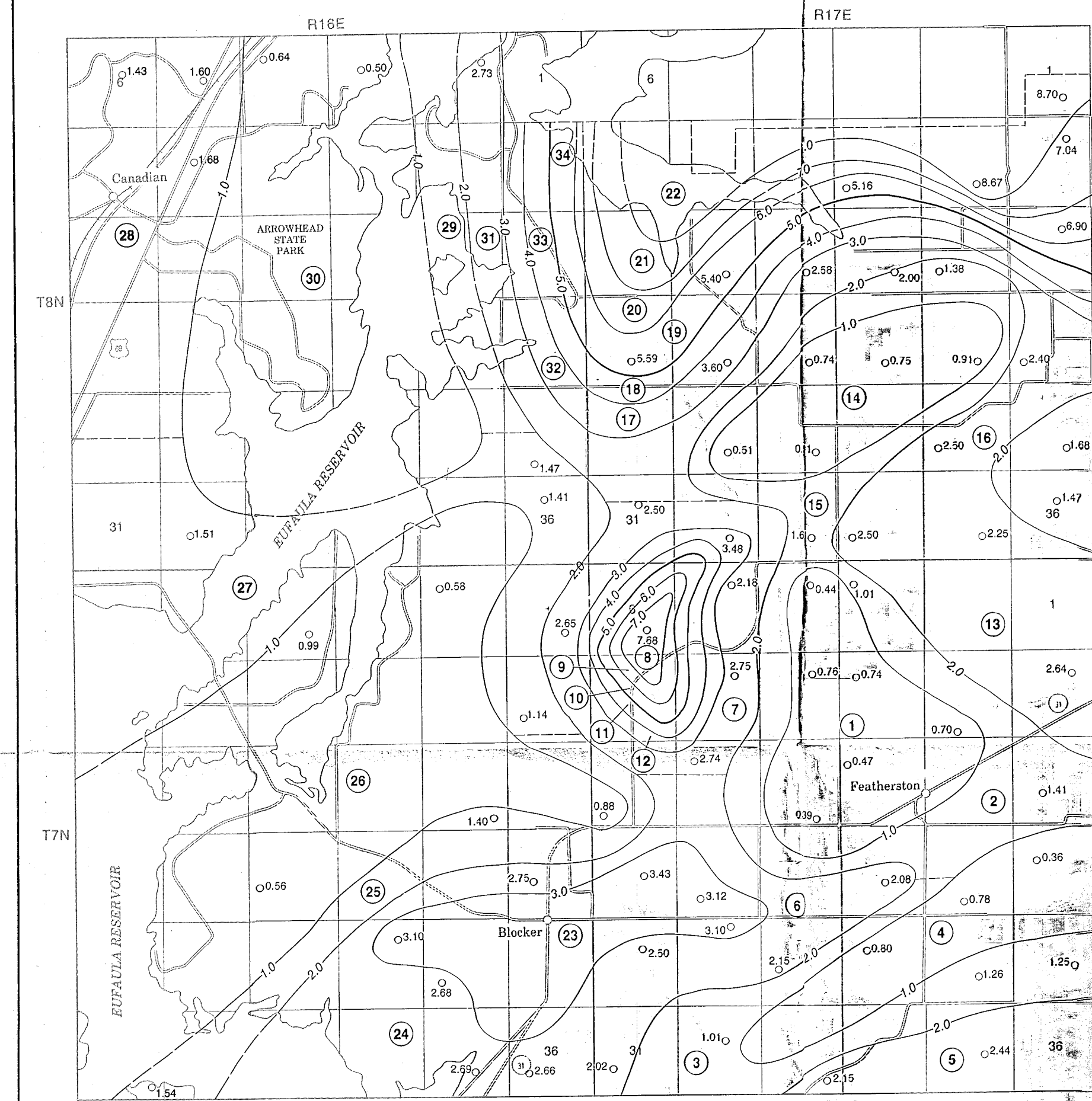


MAP B. RESERVOIR THICKNESS OF HARTSHORNE SANDSTONE

EXPLANATION

— 80 —
Isopach, in feet, of net reservoir thickness; dashed where inferred; isopach interval, 20 feet

○ 62
Oil or gas test; number indicates net reservoir thickness, in feet



MAP C. WATER SATURATION IN HARTSHORNE SANDSTONE

EXPLANATION

— 0 —
Isovolume contour, in feet; dashed where inferred; contour interval, 1 foot

○ 1.41
Oil or gas test; number indicates vertical feet of water saturation

13
Bold circled number indicates domain, or area, in which acreage has been calculated between isovolume contours; dashed lines separate domains; total acreage for each domain shown in table below

Domain number	Area (acres)	Domain number	Area (acres)
1	3,194	18	1,117
2	3,289	19	1,385
3	2,808	20	1,204
4	2,359	21	1,510
5	1,604	22	2,028
6	2,808	23	2,764
7	2,159	24	2,777
8	218	25	2,494
9	275	26	12,068
10	412	27	6,945
11	530	28	4,774
12	724	29	1,310
13	724	30	8,811
14	2,465	31	1,404
15	1,991	32	643
16	4,056	33	499
17	1,123	34	399

(Estimated minimum water volume for entire area: 640,896,000 barrels in place)



MAP D. TEMPERATURE AT 2,000 FEET BELOW LAND SURFACE

EXPLANATION

— 95 —
Isotherm, in degrees Fahrenheit; isotherm interval, 5°F

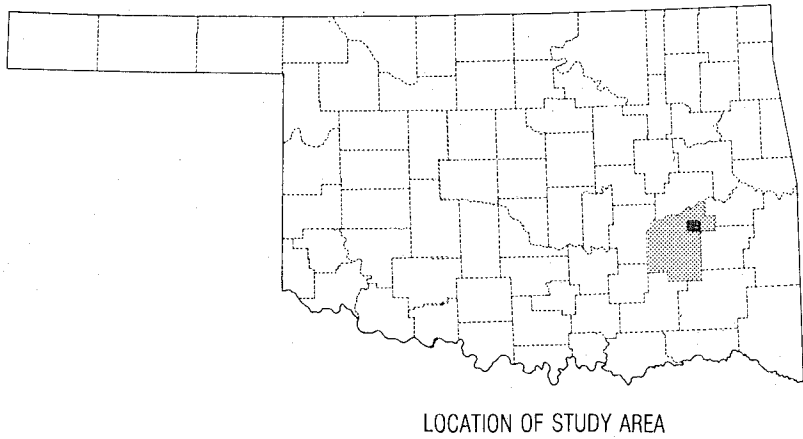
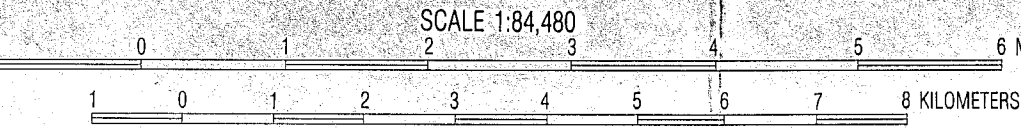
○ 102
Oil or gas test; number indicates temperature, in degrees Fahrenheit, at 2,000 feet below land surface

MAPS OF HARTSHORNE SANDSTONE AND RELATED TEMPERATURE MAP IN AREA SURROUNDING GEOTHERMAL-GRADIENT ANOMALY IN PITTSBURG COUNTY, OKLAHOMA

By
M. LYNN PRATER
1981

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Base from Oklahoma Department of Highways, General Highway Map,
Pittsburg, County, Oklahoma



LOCATION OF STUDY AREA