

TABLE 4.--Selected data for unrejected domes

[Depth to salt water is estimate of average depth adjacent to dome where hydrologic system is undisturbed]

Name of dome	Location County or parish, State	Topography of dome area	Nearby town(s): distance and direction from dome (population)	Surface water: distance and direction from dome	Depth to salt (feet)	Thickness of cap rock (feet)	Number of wells to salt	Depth to salt water (feet)
NORTHEAST TEXAS SALT-DOME BASIN								
Keechi-----	Anderson, Tex.	Gently rolling, well drained, relief 350 ft.	Palestine, 4.7 mi SE (14,525)	Trinity River 11.8 mi SW.	300	0-250	2?	-----
Palestine-----	---do-----	Central depression in gently rolling country. Rises from 250 ft at Trinity River in SW to 500 ft in NE.	Palestine, 4.7 mi ENE (14,525)	Shallow lake over dome cen- ter, Trinity River 6.2 mi SW.	122	Variable, <100	4?	680-1,700
Brooks-----	Smith, Tex.	Broad bed of Saline Creek crosses dome, flood plain of Neches River 1 mi W, other area hilly with 80-ft relief.	Bullard, 7.2 mi E (573) Frankston, 7.3 mi SSW (1,056)	Neches River 1.5 mi SW.	220	20-268	5?	1,200
Mount Sylvan--	---do-----	Gently rolling, relief 100 ft, flat bottomland of Prairie Creek crosses east part of dome, flood plain of Neches River 1 mi SW.	Tyler, 6.4 mi ESE (57,770)	Neches River 2.8 mi SW.	613/1,050	-----	At least 1	1,200
Whitehouse----	---do-----	Hilly, well drained, relief about 200 ft.	Whitehouse, 2.3 mi E (1,000) Tyler, 4.3 mi W. (57,577)	Lake Tyler 4 mi E.	2,009	<10	1	1,200
Bullard-----	---do-----	Hilly, well drained, relief 180 ft---	Bullard, 2 mi SW (573) Tyler, 12 mi N (57,770)	Lake Tyler 9 mi NE. Neches River 10 mi W.	527	152	2	-----
Steen-----	---do-----	Central swampy depression over dome surrounded by sharply dissected hilly area, 300-ft relief.	Lindale, 4.5 mi N (1,631) Tyler, 9.3 mi S (57,770)	Sabine River 4.8 mi NE.	300	225	Several	500?
NORTH LOUISIANA SALT-DOME BASIN								
Vacherie-----	Bienville and Webster, La.	In small well-drained valley, 150-ft relief.	Heflin, 3.6 mi W (300) Gibbsland, 9.8 mi NE (1,400)	Black Lake Bayou 2 mi E.	777	90-120	6	700- 800
Prothro-----	Bienville, La.	In well-drained open depression surrounded by hills with as much as 200 ft relief.	Saline, 3 mi SE (300) Jonesboro, 16.8 mi ENE (5,000)	Saline Bayou 2 mi E.	Probably shallow	Not known	1	700
Rayburns-----	---do-----	In distinct shallow depression surrounded by hills with relief to 100 ft.	Saline, 6 mi SW (300) Jonesboro, 11 mi E (5,000)	Small shallow lake on dome, Saline Bayou 3 mi W.	115	130	3	1,300
Prices-----	Winn, La.-	At boundary between flat flood plain of Dugdemona Bayou and dissected hills to W.	Mill, 2.8 mi N (<1,000) Jonesboro, 12.2 mi NNE (5,000)	Dugdemona Bayou 1 mi E.	1,300	-----	None	-----
Kings-----	Bienville, La.	Poorly drained marginal flood plain with 200-ft hills a mile or more away.	Castor, on dome (178) Ringgold, 8.2 mi NW (1,000)	Castor Creek flows past dome on south, Black Lake Bayou 23 mi W.	172	10?	3?	150
Cedar Creek---	Winn, La.-	Poorly drained bayou area with low hills nearby.	Winnfield, 1.7 mi NW (7,000)	Cedar Creek crosses dome, Dugdemona Bayou 1.5 mi NE.	750?	300-600	None	150- 450
Castor Creek--	---do-----	Moderately well drained marginal flood plain.	Tullos, 3.3 mi SE (600)	Castor Creek 2.2 mi E.	-----	-----	None	150- 350
Winnfield-----	---do-----	Indistinct depression over dome surrounded by dissected surface with 100-ft relief.	Winnfield, 3.5 mi E. (7,000)	Lake over dome--	200	200-350	33?	250- 550
MISSISSIPPI SALT-DOME BASIN								
Tatum-----	Lamar, Miss.	Hilly with 100 ft of relief-----	Purvis, 8 mi E (1,860)	Pearl River 13 mi W.	1,460-1,605	530-675	16	1,300
Lampton-----	Marion, Miss.	Hilly, well drained, with 120 ft of relief.	Columbia, 6.7 mi NW (7,587)	Pearl River 7.2 mi W.	1,647	342	2	1,400
Bruinsburg----	Claiborne, Miss.	At edge of Mississippi River flood plain, 100-ft bluffs to east.	St. Joseph, La., 4.8 mi WSW (2,000)	Bayou Pierre flows past dome.	1,881-2,236	10-434	4	700-1,000
McLaurin-----	Forrest, Miss.	Hilly, well drained, 150 ft relief--	Purvis, 6.8 mi HSW (1,860)	Black Creek 2 mi SW.	1,930	225	2	1,200
Leedo-----	Jefferson, Miss.	Hilly, well drained, 100-ft relief--	Fayette, 7 mi NW (1,600)	Only small creeks nearby.	2,065	453-706	2	700-1,000
Richmond-----	Covington, Miss.	Low, poorly drained flood plain of Bowie Creek.	Sumrall, 3.3 mi S (1,000) Hattiesburg, 15 mi SE (41,000)	Bowie Creek on dome.	1,954	44-344	1	600
Arm-----	Lawrence, Miss.	Low flood plain of Pearl River-----	Arm, 1.6 mi NE (<1,000) Monticello, 6.2 mi NW (1,800)	Pearl River flows past dome.	1,930	288-585	1	900
Gilbert-----	Franklin, La.	Flood plain of Mississippi River----	Gilbert, 3 mi SW (500) Winnsboro, 7 mi NW (4,500)	Bayou Macon 2 mi E.	1,770	345	2	?
County Line---	Greene and Wayne, Miss.	Flood plain of Chickasawhay River---	State Line, 3 mi E (650) Waynesboro, 22 mi NNW (4,000)	Chickasawhay River 2 mi W.	2,169	931	1	500
Byrd-----	Greene, Miss.	Gentle hills with 100-ft relief, well drained.	Leaksville, 10 mi SE (900)	Only very small creeks nearby.	2,058	618	3	600?
Cypress Creek-	Perry, Miss.	Poorly drained swampy area surrounded by hills with 50 ft of relief.	New Augusta, 4.5 mi NNW (275)	Cypress Creek crosses dome area.	-----	-----	None	700
Sardis Church-	Copiah, Miss.	Hilly, well drained, 50-ft relief----	Hazelhurst, 5.5 mi NW (4,577)	Bahada Creek 2.5 mi SW.	-----	>415	None	2,000
Crowville-----	Franklin, La.	Terraced flood plain of Mississippi River.	Winnsboro, 10 mi SW (4,437)	Bayou Macon 6 mi E.	-----	>339	None	-----
Hazelhurst----	Copiah, Miss.	Hilly, well drained, 50-ft relief----	Hazelhurst, 5.1 mi SW (4,577)	Copiah Creek passes dome on south.	-----	>190	None	2,000
SOUTH TEXAS SALT-DOME BASIN								
Gyp Hill-----	Brooks, Tex.	Hill 60 ft high rises above flat surface.	Falfurrias, 6 mi NNW (6,500)	Shallow brackish lake flanks dome on north.	831	831-1,175	2	900
EAST TEXAS-SOUTH LOUISIANA SALT-DOME BASIN								
Hockley-----	Harris, Tex.	Very gentle relief-----	Hockley, 4 mi N (300) Houston, 25 mi SE (1,000,000)	Only intermittent streams in area.	1,010	995	Many	2,000
Davis Hill----	Liberty, Tex.	Hill rises 150 ft above flat terrace and 210 ft above adjacent flood plain.	Cleveland, 14 mi W (6,000)	Trinity River 2 mi E.	1,200	400	2	1,700
Hawkinsville--	Matagorda, Tex.	Flat coastal plain, 10 ft above sea level.	Sweeney, 9.8 mi N (3,000)	Caney Creek crosses dome.	450	355	Several	<900
Long Point----	Fort Bend, Tex.	Flat coastal plain-----	Rosenberg, 12 mi NW (6,000) Houston, 25 mi NE (1,000,000)	Small lakes flank dome, Brazos River 8 mi E.	930	380	1	1,890
Hoskins Mound-	Matagorda, Tex.	Low hill above marshy coastal plain, <10 ft above sea level.	Angleton, 13 mi W (10,000)	3 mi from Gulf of Mexico.	1,100	576	1	900
Gulf-----	---do-----	30-ft hills above marshy coastal plain.	Bay City, 17 mi N (12,000)	1 mi from Gulf of Mexico.	1,100	275	?	900