

MINERAL RESOURCE SURVEY
 Circular No. 28

A mineral resource survey of Texas started by the Works Progress Administration is still being conducted by the Work Projects Administration, the Bureau of Economic Geology of The University of Texas acting as sponsor. The purpose of the survey is to assemble information and make it available to the public. The mineral resource survey is helping in the location of mineral products, from some of which it is reasonable to suppose industries of value to the state may be developed. The following report is based on work done in Wichita County by Work Project No. 4713 for the period from February 17 to June 16, 1938.

REPORT ON THE MINERAL RESOURCES OF WICHITA COUNTY, TEXAS*
 by William M. Lyle, Supervisor

The objective of this survey was to locate and map road building materials, first, within a radius of 5 miles from the center of Wichita Falls and the City Airport, and secondly, the precinct embracing Burkburnet, Texas.

Materials located:

- 181,139 cu. yds. of road gravel
- 70,259 cu. yds. of sandstone
- 44,000 cu. yds. of coarse sand
- 4,000 cu. yds. of medium sand
- 128,380 cu. yds. of coarse sand and gravel
- 37,080 cu. yds. of caliche-sandstone

Practically all of the above materials have less than two feet of overburden or surface soils overlying them.

The caliche-sandstone is excellent for road building since it absorbs water in such a manner as to keep roads dry at all times. This material is easily mined and soft when freshly exposed.

Prospect No. 1

Bert Humphrey

Location: 320' N of S.L. and 456' E of W.L. of A. Dunlavy Survey, 2 miles northwest of the center of Wichita Falls, Texas.

	from (feet)	to		from (feet)	to
<i>Test # 1—dimensions 2' x 7' x 6'</i>					
Surface soil	0.0	1.0	<i>Test # 5</i>		
Gravel and little dirt	1.0	4.0	Surface soil	0.0	0.5
Sandstone conglomerate	4.0	5.0	Fine gravel, little clay	0.5	2.0
Good gravel and sand	5.0	6.0	Gravel and sand	2.0	3.0
<i>Sample taken at large.</i>			Coarse gravel and sand	3.0	4.5
			Hard sandstone conglomerate	4.5	5.0
			<i>Sampled at</i>	3.5	5.5
<i>Test # 2—dimensions 2' x 7' x 5.5'</i>					
Surface soil	0.0	0.5	Sand and gravel	5.0	6.0
Fine gravel, little dirt and sand	0.5	2.0	Gravel and shale	6.0	6.5
Gravel and caliche	2.0	2.5	<i>A good grade of coarse river sand was present in this pit.</i>		
Coarse gravel and sand	2.5	3.5	<i>Test # 6—dimensions 2' x 6' x 4'</i>		
Sandstone conglomerate	3.5	3.7	Gravel	0.0	3.0
Coarse gravel and sandy shale	3.7	5.0	Red shale	3.0	4.0
Shale	5.0	5.5	<i>Test # 7—dimensions 2' x 5' x 2.5'</i>		
			Red shale	0.0	2.0
			Gray shale	2.0	2.5
<i>Test # 3—dimensions 2' x 7' x 5'</i>					
Gravel and little clay	0.0	3.0	<i>Test # 8—dimensions 2' x 3' x 2.5'</i>		
Fine gravel	3.0	4.5	Red shale	0.0	2.5
Gray shale <i>Sampled at 2' horizon</i>	4.5	5.0	<i>Test # 9—dimensions 2' x 5' x 2.5'</i>		
			Red shale	0.0	2.5
			Gravel	2.5	3.5
<i>Test # 4—dimensions 3' x 6' x 4.2'</i>					
Surface	0.0	1.0	<i>Test # 10—dimensions 2' x 5' x 2'</i>		
Gravel	1.0	4.0	Gravel	0.0	0.5
Gray shale, chalky	4.0	4.2	Red shale	0.5	2.0

*Assistance in the preparation of these materials was furnished by the personnel of Works Progress Administration Official Project No. 65-66-4896, and Work Projects Administration Official Project No. 665-66-3-233.

	from	to
	(feet)	
<i>Test # 11—dimensions 2' x 7' x 8.5'</i>		
Surface soil	0.0	1.5
Gravel and little clay <i>Sampled at large</i>	1.5	2.5
Red sand and gravel	2.5	4.0
Gravel and little sand	4.0	7.0
Gray clay	7.0	8.5
<i>Test # 12—dimensions 3' x 7' x 4'</i>		
Surface clay	0.0	6.0
<i>Test # 13—dimensions 2.5' x 8' x 4'</i>		
Surface gravel	0.0	0.5
Red shale	0.5	4.0

	from	to
	(feet)	
<i>Test # 14—dimensions 3' x 9' x 5.5'</i>		
Shale	0.0	1.5
Shale and gravel <i>Sampled at large</i>	1.5	3.0
Coarse sand and gravel	3.0	5.0
Sandstone conglomerate	5.0	5.2
Sandy shale	5.2	5.5
<i>Test # 15—dimensions 3' x 7' x 4.5'</i>		
Red shale	0.0	2.5
Good gravel <i>Sampled at large</i>	2.5	4.5
Shale	4.5	5.5
<i>This prospect is estimated to contain in excess of 12,000 cubic yards of almost pure gravel.</i>		

Prospect No. 2

Geo. B. Ray land

Location: 1200' N of S.L. and 500' W of E.L. of T. Hardy Survey, 2 miles north and 1 mile west of the center of Wichita Falls, Texas.

<i>Test # 16—dimensions 2' x 7' x 6.5'</i>		
Gravel and dirt	0.0	0.5
Gravel	0.5	4.3
Sandstone conglomerate	4.3	4.5
Gravel	4.5	6.0
Red shale	6.0	6.5

Prospect No. 3

E. V. Frieberg

Location: 2000' E of W.L. and 1000' S of N.L. of M. Carbajal Survey, 2.75 miles north of the center of Wichita Falls, Texas.

<i>Test # 18—dimensions 2' x 6' x 3'</i>		
Gravel	0.0	0.5
Shale and sand	0.5	2.0
Shale	2.0	3.0

<i>Test # 19—dimensions 2' x 6' x 3'</i>		
Gravel	0.0	1.0
Red shale	1.0	2.0
Sand rock	2.0	2.5
Shale	2.5	3.0

<i>Test # 20—dimensions 2' x 5' x 3'</i>		
Gravel	0.0	2.0
Sand and clay	2.0	3.0

Prospect No. 4

E. V. Frieberg

Location: 800' W of E.L. and 1200' S of N.L. of M. Carbajal Survey, 2.75 miles north and 0.25 mile east of the center of Wichita Falls, Texas.

<i>Test # 23—dimensions 2' x 7' x 4.7'</i>		
Gravel	0.0	3.0
Shale	3.0	3.5

<i>Test # 26—dimensions 3' x 6' x 4'</i>		
Gravel	0.0	1.0
Red shale	1.0	4.0

<i>Test # 24—dimensions 2' x 6' x 2'</i>		
Gravel	0.0	0.7
Red shale	0.7	2.0

<i>Test # 27—dimensions 3' x 6' x 4'</i>		
Surface soil	0.0	1.0
Red shale	1.0	4.0

<i>Test # 25—dimensions 2.5' x 7' x 4'</i>		
Red shale	0.0	1.0
Light shale	1.0	1.5
Red shale	1.5	2.0
Light shale	2.0	4.0

Prospect No. 5

E. V. Frieberg

Location: 2000' N of S.L. and 2000' W of E.L. of M. Carbajal Survey, 2.25 miles north of the center of Wichita Falls, Texas.

<i>Test # 28—dimensions 2' x 6' x 3.5'</i>		
Gravel	0.0	1.0
Red shale	1.0	3.5

<i>Test # 30</i>		
Gravel and dirt	0.0	1.0
Red shale	1.0	2.5

<i>Test # 29</i>		
Gravel	0.0	0.2
Shale, red and buff	0.2	3.0

<i>Test # 31—dimensions 2' x 7' x 3.5'</i>		
Gravel	0.0	0.8
Shale	0.8	3.5

Prospect No. 6

Deming Investment Co.

Location: 1000' N or Wichita Falls-Charlie Hwy. and along W line of tract in the G. W. Childers Survey, 3.5 miles northeast of Wichita Falls, Texas.

	from	to		from	to
	(feet)			(feet)	
<i>Test # 32—dimensions 2' x 5' x 3'</i>			<i>Test # 34—dimensions 2' x 5' x 3.9'</i>		
Gravel	0.0	1.5	Shale	0.0	2.7
Shale	1.5	3.0	Gravel	2.7	3.7
			Shale	3.7	3.9
<i>Test # 33—dimensions 2' x 6' x 3'</i>			<i>Test # 35 (Bowman Farm Subdivision owner)—dimensions 2' x 6' x 3'</i>		
Gravel	0.0	2.0	Gravel	0.0	2.0
Shale <i>Sampled</i>	2.0	3.0	Shale	2.0	3.0

Prospect No. 7

Deming Investment Co.

Location: 876' S of N.W. corner of tract of G. W. Childers Survey, A32, approximately 350 miles northeast of Wichita Falls, Texas.

<i>Test # 36—dimensions 2' x 5' x 5.2'</i>			<i>Test # 41—dimensions 2.5' x 5' x 5'</i>		
Surface dirt and gravel	0.0	1.0	Top soil	0.0	1.0
Fine gravel and clay	1.0	3.0	Gravel	1.0	5.5
Shale and clay	3.0	5.2	Gray shale	5.5	5.7
<i>Test # 37—dimensions 2' x 5' x 5'</i>			<i>Test # 42—dimensions 2' x 5' x 5'</i>		
Soil	0.0	0.5	Gravel	0.0	0.5
Shale	4.0	5.0	Shale	0.5	5.0
Gravel	0.5	4.0			
<i>Test # 38—dimensions 2.5' x 6' x 6'</i>			<i>Test # 43—dimensions 2' x 6' x 5'</i>		
Surface soil	0.0	1.0	Gravel	0.0	1.5
Gravel and clay	1.0	3.0	Gray shale	1.5	3.5
Sand and gravel	3.0	5.0	Red shale	3.5	5.0
Clay	5.0	6.0			
<i>Test # 39—dimensions 2.5' x 6' x 6.6'</i>			<i>Test # 44—dimensions 2' x 7' x 7'</i>		
Top soil	0.0	0.5	Good gravel	0.0	2.5
Gravel	0.5	1.3	Red and white clay	2.5	3.0
Gravel and clay	1.3	2.5			
Gravel and coarse sand.	2.5	6.0	<i>Test # 45a—dimensions 3' x 6' x 6'</i>		
Red shale	6.0	6.6	Top soil	0.0	1.8
<i>Test # 40—dimensions 2.5' x 6' x 5.5'</i>			Gravel	1.8	3.2
Shale	0.0	1.0	Shale and large rocks	3.2	5.2
Gravel	1.0	2.0	Shale	5.2	6.0
Shale	2.0	5.0	<i>Test # 45b—dimensions 2' x 3' x 5.5'</i>		
			Gravel	0.0	5.5
			<i>Approximately 7,406 cubic yards of gravel</i>		

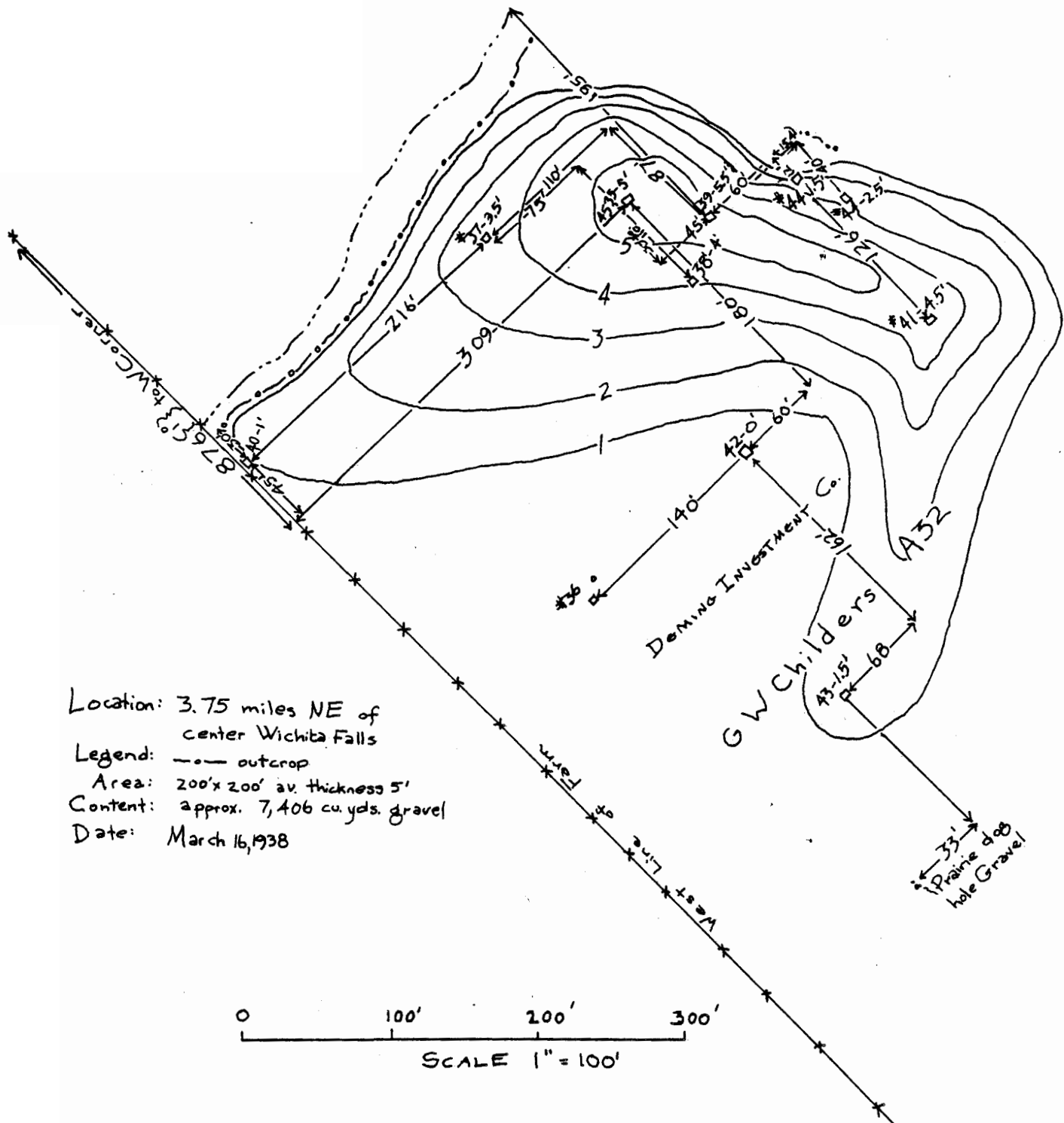
Prospect No. 8

G. E. Martin

Location: 1320' E of W.L. and 480' S of N.W. line of G. E. Martin tract, T. Bailey Survey, approximately 5.5 miles northeast of center Wichita Falls, Texas.

<i>Test # 46—dimensions 3' x 5' x 5'</i>			<i>Test # 48b—dimensions 2' x 2' x 1.5'</i>		
Top soil	0.0	0.9	Gravel	0.0	0.3
Gravel	0.9	2.5	Sandstone	0.3	1.5
Shale and clay	2.5	5.0			
<i>Test # 47a—dimensions 2' x 4' x 4'</i>			<i>Test # 49a—dimensions 2.5' x 4.5' x 5'</i>		
Top soil and some rock	0.0	1.5	Top soil	0.0	0.8
Gravel	1.5	3.5	Gravel	0.8	2.8
Shale	3.5	4.0	Clay and shale	2.8	5.0
<i>Test # 47b—dimensions 2' x 2' x 3'</i>			<i>Test # 49b—dimensions 2' x 3' x 3'</i>		
Shale	0.0	3.0	Gravel <i>Approximately 2057 cubic yards gravel</i>	0.0	0.5
			Shale	0.5	3.0
<i>Test # 48a—dimensions 2' x 4' x 5'</i>					
Top soil	0.0	1.0			
Gravel	1.0	3.8			
Shale	3.8	5.0			

Prospect #7



Location: 3.75 miles NE of center Wichita Falls

Legend: — outcrop

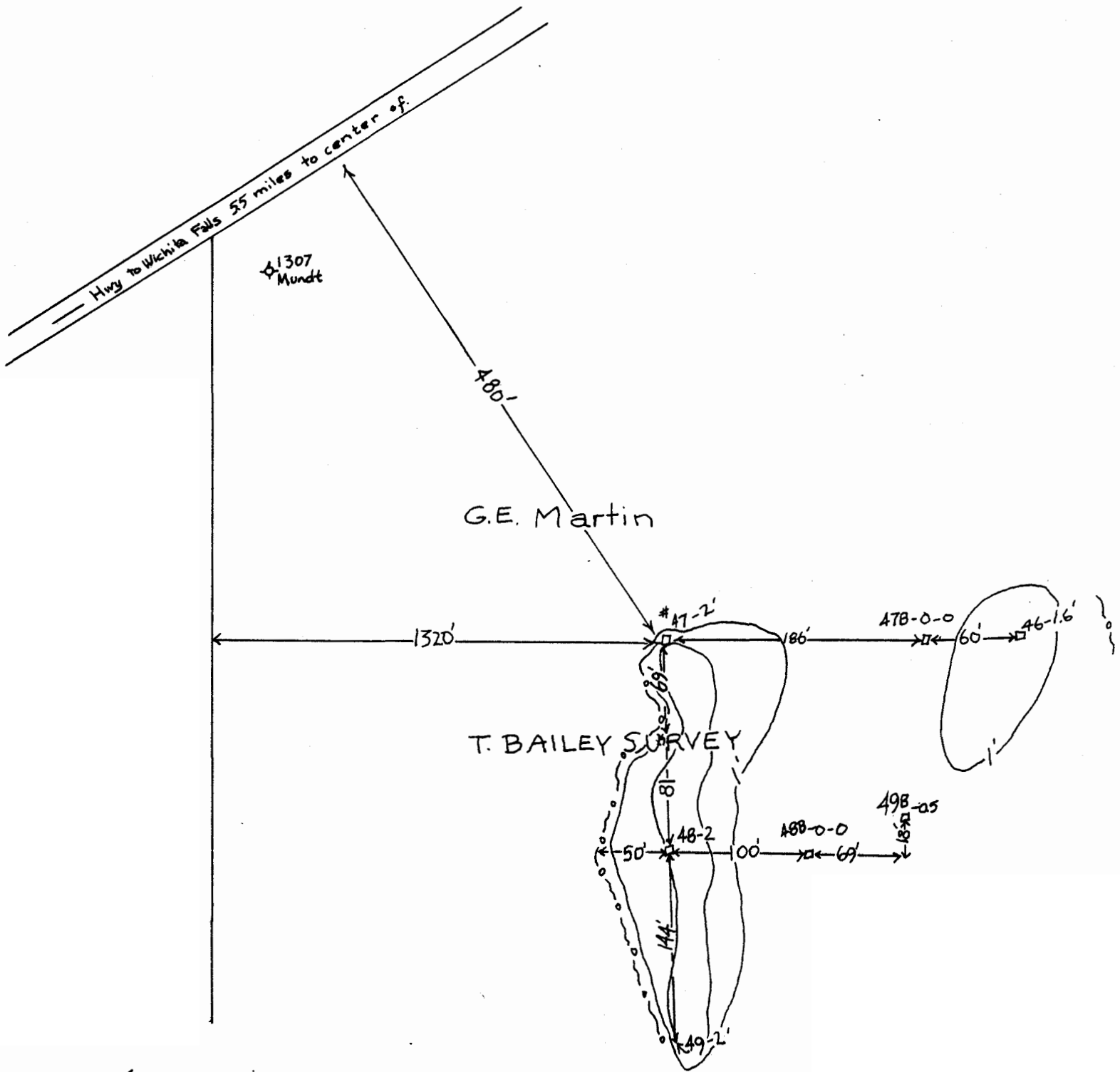
Area: 200' x 200' av. thickness 5'

Content: approx. 7,406 cu. yds. gravel

Date: March 16, 1938

0 100' 200' 300'
SCALE 1" = 100'

Prospect #8.



0 100' 200' 300'

Scale 1" = 100'

Contains approx. 2057 cu. yds. Gravel.

Date March 16, 1938

Prospect No. 9

O. M. Hurdt

Location: 5.5 miles NE of central Wichita Falls, Texas. J. English A-71 Survey.

	from to (feet)			from to (feet)	
<i>Test # 50—dimensions 2.5' x 5' x 5.5'</i>			<i>Test # 53—dimensions 2' x 5' x 5.5'</i>		
Shale, little gravel	0.0	1.0	Clay	0.0	1.5
Fair gravel	1.0	5.0	Gravel	1.5	3.5
Clay	5.0	5.5	Shale and clay	3.5	5.5
<i>Test # 51—dimensions 2' x 4' x 5'</i>			<i>Test # 54—dimensions 2.5' x 7' x 5'</i>		
Shale surface rocks	0.0	0.5	Top soil and rock	0.0	1.5
Gravel	0.5	1.5	Gravel	1.5	4.5
Clay	1.5	4.0	Shale and clay	4.5	5.0
<i>Test # 52—dimensions 3' x 5' x 6'</i>			<i>Test # 55—dimensions 3' x 5' x 4'</i>		
Shale	0.0	1.5	Top soil and red shale	0.0	1.0
Fair gravel	1.5	5.0	Gravel <i>Approximately 12,337 cubic yards gravel</i>	1.0	1.6
Shale and clay	5.0	6.0	Shale	1.6	3.0
			Clay	3.0	4.0

Prospect No. 10

O. M. Hurdt

Location: Approximately 1000' S of N.L. and 1000' W of S.L. of O. M. Hurdt tract, J. English A-71 Survey, 5.75 miles northeast of center of Wichita Falls, Texas.

<i>Test # 56—dimensions 3' x 5' x 4'</i>			<i>Test # 61—dimensions 2' x 4' x 3'</i>		
Surface soil	0.0	1.0	Surface soil	0.0	0.5
Gravel	1.0	2.2	Shale	0.5	3.0
Shale and clay	2.2	4.0			
<i>Test # 57—dimensions 2' x 8' x 4.5'</i>			<i>Test # 62—dimensions 2' x 6' x 5'</i>		
Fine gravel	1.0	1.5	Dirt and fine gravel	0.0	1.5
Gravel	1.5	2.5	Gravel	1.5	3.0
Shale	2.5	4.5	Shale and clay	3.0	5.0
<i>Test # 58—dimensions 2.5' x 4' x 3'</i>			<i>Test # 63—dimensions 2' x 4' x 2'</i>		
Surface soil	0.0	1.0	Gravel <i>Approximately 1,000 cubic yards gravel</i>	0.0	0.8
Gravel	1.0	1.5	Shale	0.8	2.0
Shale	1.5	3.0			
<i>Test # 59—dimensions 2' x 6' x 2.2'</i>					
Dirt and surface rock	0.0	1.0			
Gravel	1.0	1.7			
Shale and clay	1.7	5.0			

Prospect No. 11

Location: Panhandle tank farm SW corner of Thos. Curry A-344 and NW corner of S. Holloway Surveys, 3.5 miles north and 1 mile west of center Wichita Falls, Texas.

<i>Test # 64—dimensions 2' x 2.5' x 3'</i>			<i>Test # 66—dimensions 2' x 2' x 2.2'</i>		
Coarse gravel	0.0	0.5	Surface dirt	0.0	0.5
Red shale	0.5		Gravel	0.5	0.7
			Shale	0.7	2.2
<i>Test # 65—dimensions 3' x 2' x 1.5'</i>			<i>Test # 67—dimensions 2' x 3' x 3'</i>		
Coarse gravel	0.0	0.5	Red shale <i>Approximately 500 cubic yards gravel</i>	0.0	3.0
Black rock	0.5	1.5	Prospect not worth while was not platted. Contains approximately 500 cubic yards of gravel which composes uppermost gravel bed of this area.		

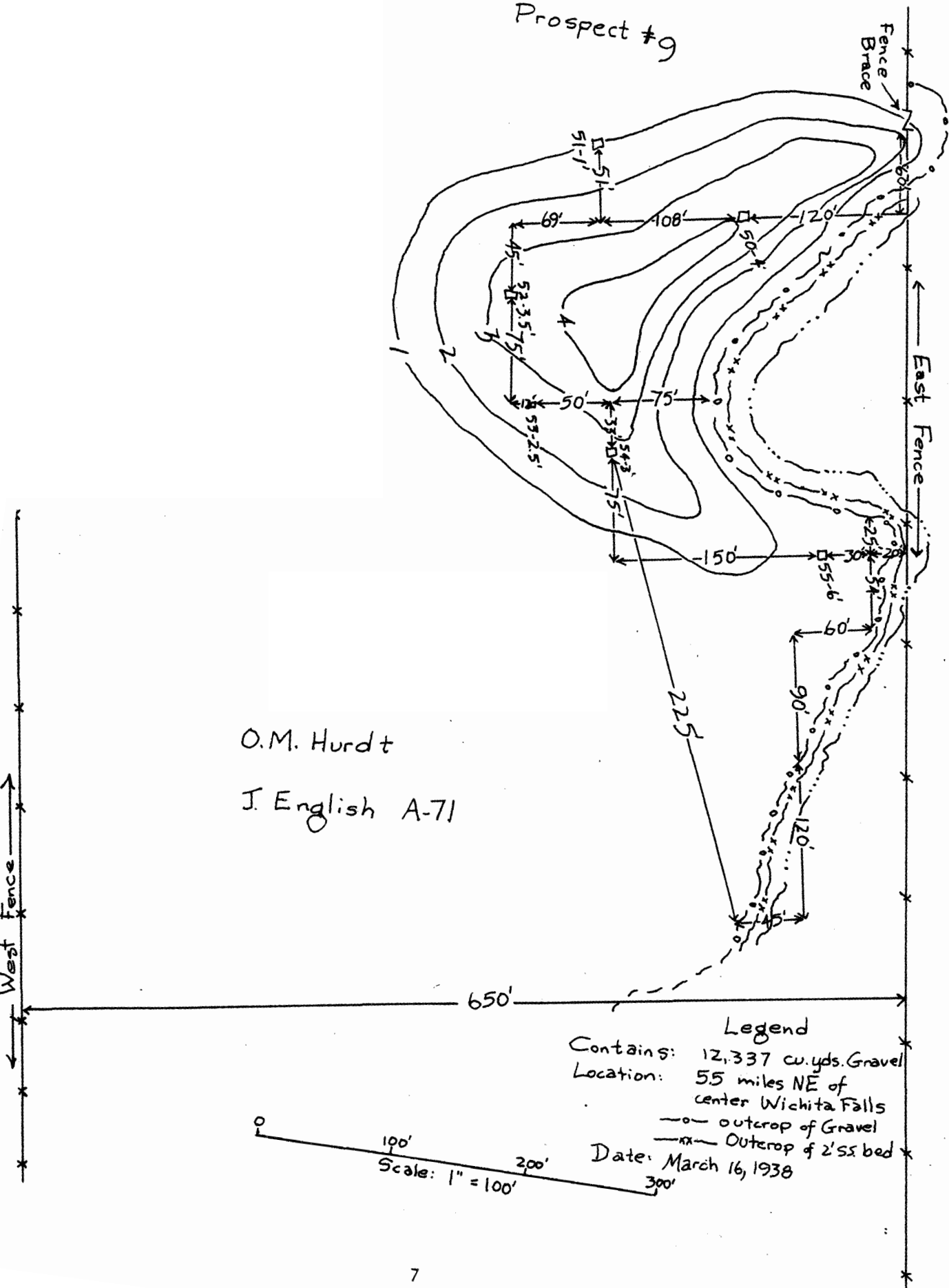
Prospect No. 12

Geo. Ray

Location: 255' E of W.L. and 1000' N of S.L. of tract out of T. Hardy A-367 Survey, 2.25 miles north and 1.75 miles west of center of Wichita Falls, Texas.

<i>Test # 68—dimensions 1.5' x 4' x 2.5'</i>			<i>Test # 70—dimensions 3' x 6' x 7.4'</i>		
Soil	0.0	1.5	Shale, little gravel	0.0	4.8
Clay	1.5	2.5	Gravel	4.8	7.0
			Coarse sand	7.0	7.1
<i>Test # 69—dimensions 2' x 4' x 3'</i>			Red shale	7.1	7.4
Gravel	0.0	0.5	<i>Test # 71—dimensions 2' x 3' x 3'</i>		
Shale	0.5	2.5	Shale	0.0	3.0

Prospect #9



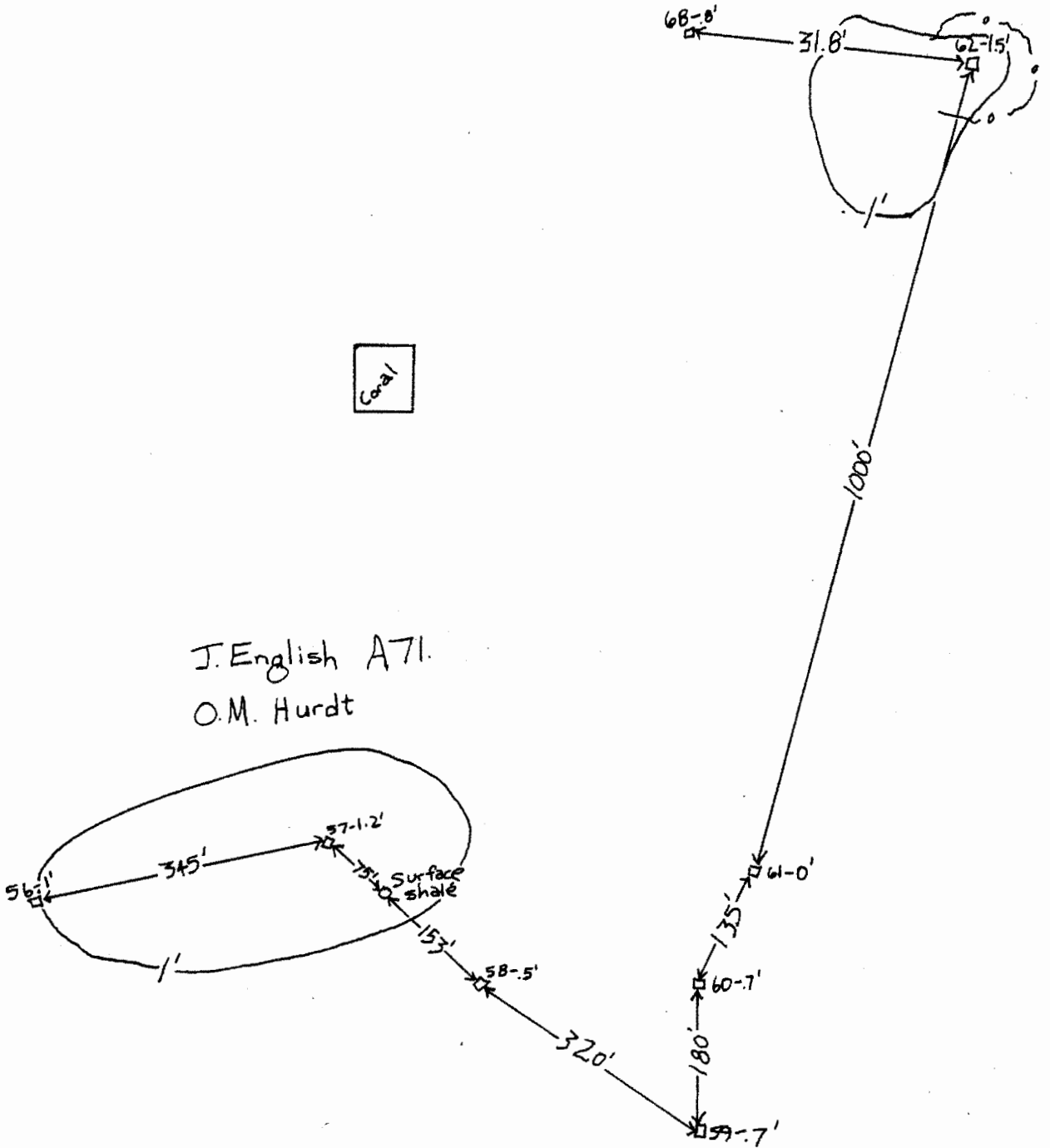
O.M. Hurd t
 J. English A-71

Legend
 Contains: 12,337 cu. yds. Gravel
 Location: 55 miles NE of
 center Wichita Falls
 —○— outcrop of Gravel
 —x— Outcrop of 2' ss bed
 Date: March 16, 1938

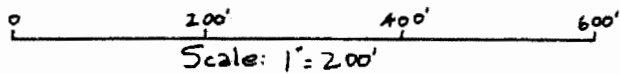
Scale: 1" = 100'
 0 100' 200' 300'



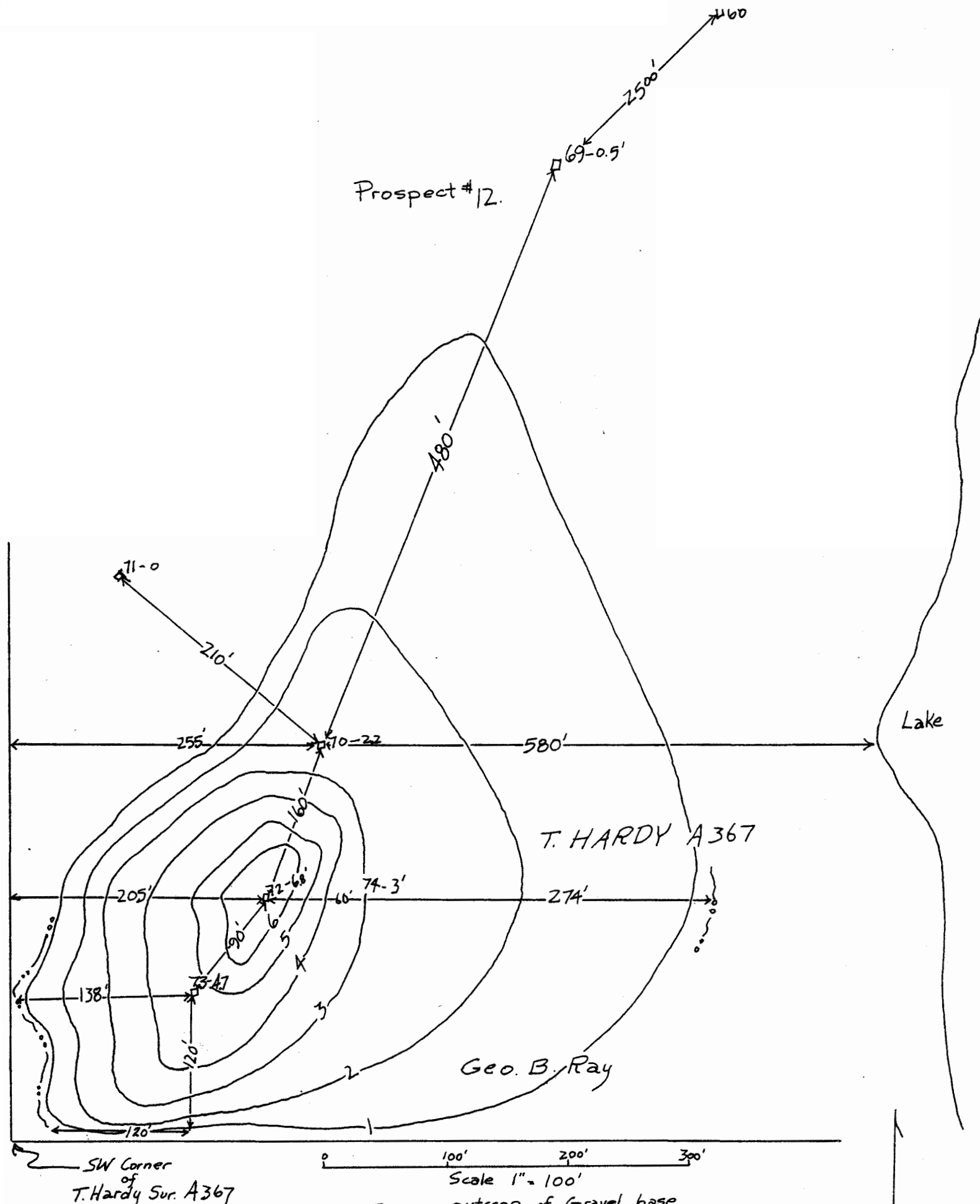
Prospect #10



J. English A71.
O.M. Hurdt



Location: approx 5.75 miles NE of center Wichita Falls
 Legend: -o-o outcrop
 contains approx. 1,000 cu. yds. of Gravel
 Date: March 16, 1938



Prospect #12.

T. HARDY A367

Geo. B. Ray

Lake

0 100' 200' 300'
Scale 1" = 100'

~ ~ ~ outcrop of Gravel base

SW Corner of T. Hardy Sur. A367

Location: 2.25 miles N + 1.75 miles W of center Wichita Falls.

approx. 13,000 cu. yds. Gravel
March 16, 1938

<i>Test # 72—dimensions 2' x 6' x 6.7'</i>	from (feet)	to	<i>Test # 74—dimensions 2' x 7' x 8.1'</i>	from (feet)	to
Gravel	0.0	4.5	Shale, little gravel	0.0	3.5
Coarse sand	4.5	6.7	Sand and fine gravel	3.5	5.0
Clay	6.7	7.0	Good gravel	5.0	8.0
			Shale	8.0	8.1
<i>Test # 73—dimensions 2' x 5' x 5'</i>			<i>Test # 75—dimensions 2' x 6' x 7.2'</i>		
Gravel, little shale	0.0	2.0	Shale <i>Approximately 20,000 cubic yards gravel.</i>	0.0	2.0
Gravel	2.0	4.7	Gravel	2.0	5.0
Clay	4.7	5.0	Shale	5.0	5.3

Prospect No. 12 is estimated to contain in excess of 20,000 cubic yards of almost pure gravel.

Prospect No. 13

Helen G. Harris

Location: 600' S of N.L. and 50' W of E.L. of Helen G. Harris Tract, J. R. Cooke A-40, 2.5 miles west and 1 mile north of center Wichita Falls, Texas.

<i>Test #76—dimensions 2' x 2' x 2'</i>			<i>Test # 80—dimensions 2' x 5' x 5'</i>		
Gravel	0.0	1.0	Gravel	0.0	4.5
Shale	1.0	2.0	Sandstone conglomerate	4.5	5.0
<i>Test # 77—dimensions 3' x 5' x 4'</i>			<i>Test # 81—dimensions 2' x 5' x 5'</i>		
Red shale	0.0	1.5	Surface soil	0.0	2.5
Gravel	1.5	3.5	Gravel	2.5	4.5
Sandstone conglomerate	3.5	4.0	Sandstone conglomerate	4.5	5.0
<i>Test # 78—dimensions 3' x 5' x 5.3'</i>			<i>Test # 82—dimensions 3' x 4' x 4.8'</i>		
Gravel	0.0	1.0	Coarse gravel	0.0	2.6
Sandstone	1.0	1.4	Sand and gravel	2.6	4.2
Gravel	1.4	4.3	Sandstone conglomerate	4.2	4.8
Shale and white clay	4.3	5.3	<i>Test # 83—dimensions 2' x 5' x 5'</i>		
<i>Test # 79—dimensions 2' x 4' x 5.5'</i>			Gravel	0.0	1.0
Surface soil	0.0	3.0	Shale	1.0	4.0
Gravel	3.0	5.0	<i>Test # 84—dimensions 2' x 3' x 5'</i>		
Hard rock and sandstone	5.0	5.5	Surface soil <i>Approximately 5,554 cubic yards gravel.</i>	0.0	3.0
			Rock and sandstone	3.0	5.0

Prospect No. 14

O. Bullington

Location: 1000' W of E.L. and 200' S of N.L. of tract Pratt and Thornberry, A-468, 5.0 miles northeast of Wichita Falls Airport.

<i>Test # 85—dimensions 2' x 3' x 3'</i>			<i>Test # 86—dimensions 2' x 3' x 3'</i>		
Gravel	0.0	2.0	Gravel <i>Approximately 1,260 cubic yards of gravel.</i>	0.0	0.5
Shale	2.0	1.0	Shale	0.5	3.0

Prospect No. 15

R. C. Caroy

Location: 800' N of S.E. line and 1000' W of N.E. line of tract C. Gideon A-82, 1.5 miles north and 3 miles east of Wichita Falls Airport.

<i>Test # 87—dimensions 2' x 3' x 3'</i>					
Gravel <i>Approximately 1000 cubic yards of gravel.</i>	0.0	0.3			
Red Shale	0.3	3.0			

Prospect No. 16

Area north of Wichita Falls Airport. Reconnaissance work in which the party covered all of the area north of Wichita Falls Airport took one day.

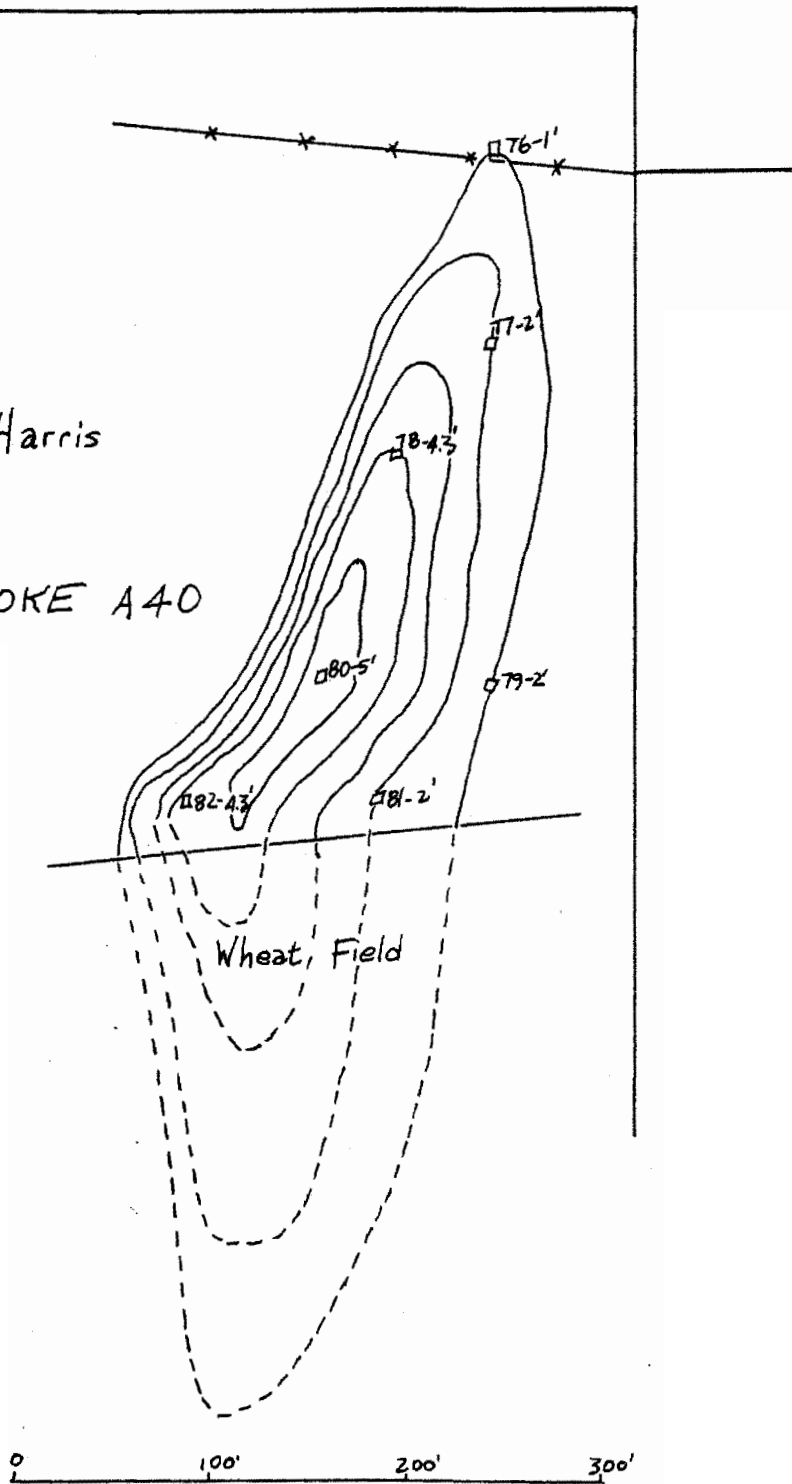
A section of the bluff on south bank of Red River near the center of N.L. of B. Brown A-22 was measured as follows:

Red shale	0.0	3.0			
Sandstone	3.0	4.0			
Red shale	4.0	12.0			
Coarse sand	12.0	24.0			

Prospect #13

Mrs. Helen G. Harris

J. R. COOKE A40



Scale 1" = 100'

contains 5,556 cu. yds.

LEGEND:

- Top of Bed
 - - - Base of Bed
 - Cont. Int. 4'
- April 3, 1958

Prospect No. 17

J. J. Perkins

Location: 600' S of N.L. and 1000' W of E.L. of SE¼ section 2, Jas. Walker A-328, 2 miles north of Wichita Falls Airport.

	from to (feet)	from to (feet)
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Test # 88

Sandstone *Approximately 1000 cubic yards sandstone.* 0.0 1.0**Prospect No. 18**

Nettie Pray

Location: 300' W of E.L. and 400' S of N.L. of Survey No. 1 Ramon Travine A-286, 0.5 mile west and 1.0 mile north of city of Wichita Falls Airport.

Test # 89—dimensions 2' x 3' x 4'

Shale 0.0 2.0

Sandstone *Approximately 1000 cubic yards sandstone.* 2.0 7.0**Prospect No. 19**

John J. Young

Location: 500' S of N.L. and 800' W of E.L. of NW¼ section 38, H. D. Collins A-404, 4.5 miles west of Wichita Falls Airport.

Test # 90—dimensions 2' x 3' x 7'

Soil and gravel 0.0 3.0

Sandstone 3.0 7.0

Test # 91—dimensions 2' x 3' x 3.3'

Shale 0.0 1.0

Gravel *Approximately 1000 cubic yards gravel.* 1.0 3.0Sandstone *Approximately 14,000 cubic yards sandstone.* 3.0 3.3**Prospect No. 20**

E. Riley

Location: 1000' N of S.L. and 1000' E of W.L. of Survey A-345 at Bacon Switch, 2.5 miles west of Wichita Falls Airport.

Test # 92a—dimensions 2' x 3' x 3.5'

Soil 0.0 0.5

Sandstone 0.5 3.5

Test # 92b—dimensions 2' x 3' x 3.5'

Soil 0.0 0.5

Sandstone *Approximately 35,000 cubic yards sandstone.* 0.5 3.5**Prospect No. 21**

Mrs. M. L. Hope

Location: 500' S of N.L. and 150' E of W.L. of tract out of N. Dembriskie A-66, 4 miles southwest of Wichita Falls Airport.

Test # 93—dimensions 2' x 3' x 4.5'

Soil 0.0 2.0

Gravel 2.0 4.0

Clay 4.0 4.5

Test # 97—dimensions 2' x 3' x 3.5'

Shale 0.0 1.0

Gravel 1.0 3.0

Shale 3.0 3.5

Test # 94—dimensions 2' x 3' x 5.7'

Soil and gravel 0.0 1.5

Gravel 1.5 3.5

Sand 3.5 4.0

Shale and caliche 4.0 5.0

White sandy shale 5.0 5.7

Test # 98—dimensions 2' x 3' x 3'

Soil 0.0 1.0

Gravel 1.0 2.3

Shale 2.3 3.0

Test # 99—dimensions 2' x 3' x 4.5'

Soil 0.0 0.5

Gravel 0.5 2.5

Shale 2.5 4.5

Test # 95—dimensions 2' x 3' x 3'

Soil 0.0 1.0

Shale 1.0 3.0

Test # 100

Soil 0.0 1.0

Shale 1.0 4.5

Test # 96—dimensions 2' x 3' x 4'

Shale 0.0 0.5

Gravel 0.5 3.0

Shale 3.0 4.0

Test # 101—dimensions 2' x 3' x 3.0'

Gravel *Approximately 4352 cubic yards gravel* 0.0 0.4

Shale 0.4 3.0

Prospect No. 22

H. J. Parish

Location: 500' S of N.L. and 800' W of E.L. of N.E. corner of NW¼ section 39, H and G.N.R.R. A-161, 1.5 miles west of Wichita Falls Airport.

Test # 101—dimensions 2' x 3' x 5'

Soil 0.0 1.0

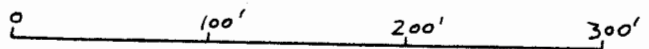
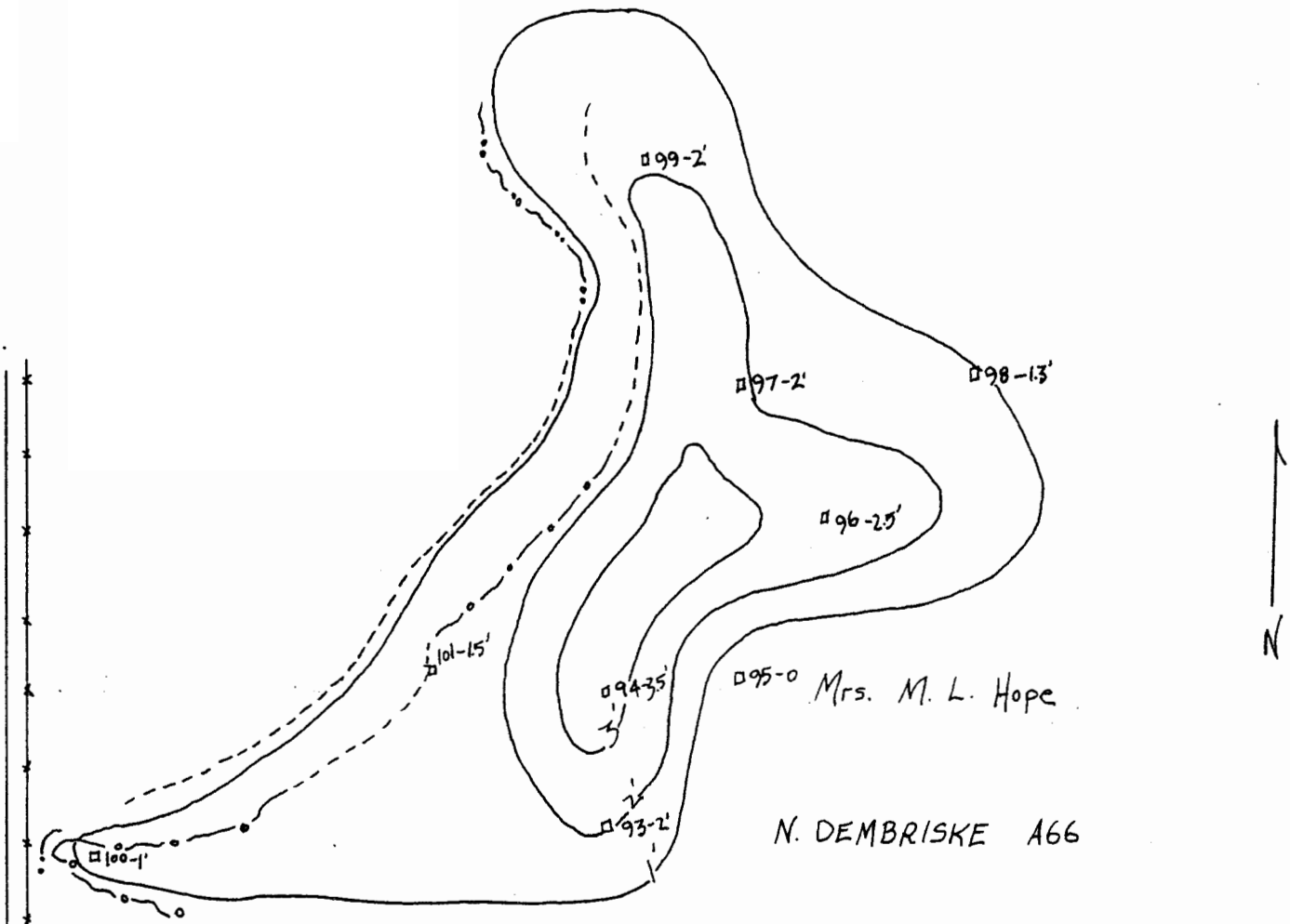
Sandstone 1.0 5.0

Test # 102—dimensions 2' x 3' x 4'

Soil 0.0 2.0

Sandstone *Approximately 1333 cubic yards sandstone.* 2.0 4.0

Prospect #21



Scale 1" = 100'

contains 4,352 cu. yds. Gravel

- LEGEND
- o- Top of Bed
 - ...- Base of Bed
 - xx- Sandstone Bed
- Contour Int: 1'
- contains 4,352 cu. yds. Gravel

← 5 miles to Wichita Falls

Prospect No. 23

W. L. Robertson

Location: NE corner NW¼, A. R. Collins A-414, 1.5 miles west of Wichita Falls Airport.

	from	to		from	to
	(feet)			(feet)	
Test # 103					
Shale	0.0	1.3			
Sandstone	1.3	4.3	<i>Approximately 15,000 cubic yards sandstone.</i>		

Prospect No. 24

Location: 600' E of W.L. and 500' S of Wichita River bridge, J. V. Wheeler A-337a, 2 miles west of center of Wichita Falls, Texas.

Test # 104—dimensions 2' x 10' x 6'	from	to	Test # 105—dimensions 2' x 6' x 5'	from	to
Sandstone	0.0	1.0	Sandstone	0.0	1.5
Shale	1.0	6.0	Shale	1.5	5.0

Prospect No. 25

Location: 500' S of Wichita River and 1000' W of E.L. of M. C. Napier A-778, 2 miles west of center of Wichita Falls, Texas.

Test # 106—dimensions 2' x 6' x 5'	from	to	Test # 107—dimensions 2' x 3' x 4'	from	to
Coarse gravel	0.0	0.3	Soil	0.0	4.0
Shale	0.3	3.3	Sandstone	4.0	11.0
Sandstone	3.3	5.0	<i>Approximately 1000 cubic yards gravel, 12,000 cubic yards sandstone.</i>		

Prospect No. 26

Location: 1200' W of E.L. and 500' S of N.L. of Robert Evans A-74, 2.5 miles west of center of Wichita Falls, Texas.

Test # 108—dimensions 2' x 3' x 5'	from	to
Gravel	0.0	2.5
Shale	2.5	5.0

Prospect No. 27

Location: 500' S of old river channel, 3.5 miles west of center of Wichita Falls, Texas.

Test # 109—dimensions 2' x 3' x 6'	from	to
Surface soil	0.0	3.0
Soft sandstone	3.0	6.0
<i>Approximately 7' thick sandstone bed.</i>		

Prospect No. 28

Mrs. Mary Downing

Location: 285' N of S.L. and 75' E of W.L. of tract W. F. Williams A326, 4.5 miles northeast of center of Wichita Falls, Texas.

Test # 110—dimensions 3' x 5' x 3.5'	from	to	Test # 116—dimensions 2' x 6' x 4.5'	from	to
Gravel	0.0	3.0	Red shale	0.0	2.0
Shale	3.0	5.0	Gravel	2.0	3.5
			Shale	3.5	4.5
Test # 111—dimensions 3' x 5' x 3.5'	from	to	Test # 117—dimensions 2' x 6' x 3.8'	from	to
Red shale	0.0	3.5	Soil	0.0	1.0
Test # 112—dimensions 3' x 5' x 4'	from	to	Gravel	1.0	1.8
Shale	0.0	4.0	Red shale	1.8	3.8
Test # 113—dimensions 2' x 5' x 4'	from	to	Test # 118—dimensions 3' x 6' x 3.5'	from	to
Red shale	0.0	4.0	Red shale	0.0	3.5
Test # 114—dimensions 2' x 6' x 3.5'	from	to	Test # 119—dimensions 2' x 5' x 5.3'	from	to
Red shale	0.0	3.5	Gravel	0.0	5.0
Test # 115—dimensions 2' x 3' x 4'	from	to	Sandstone conglomerate	5.0	5.3
Gravel	0.0	0.5	<i>2917 cubic yards gravel.</i>		
Red shale	0.5	4.0			

Prospect No. 29

Mrs. A. Frieberg

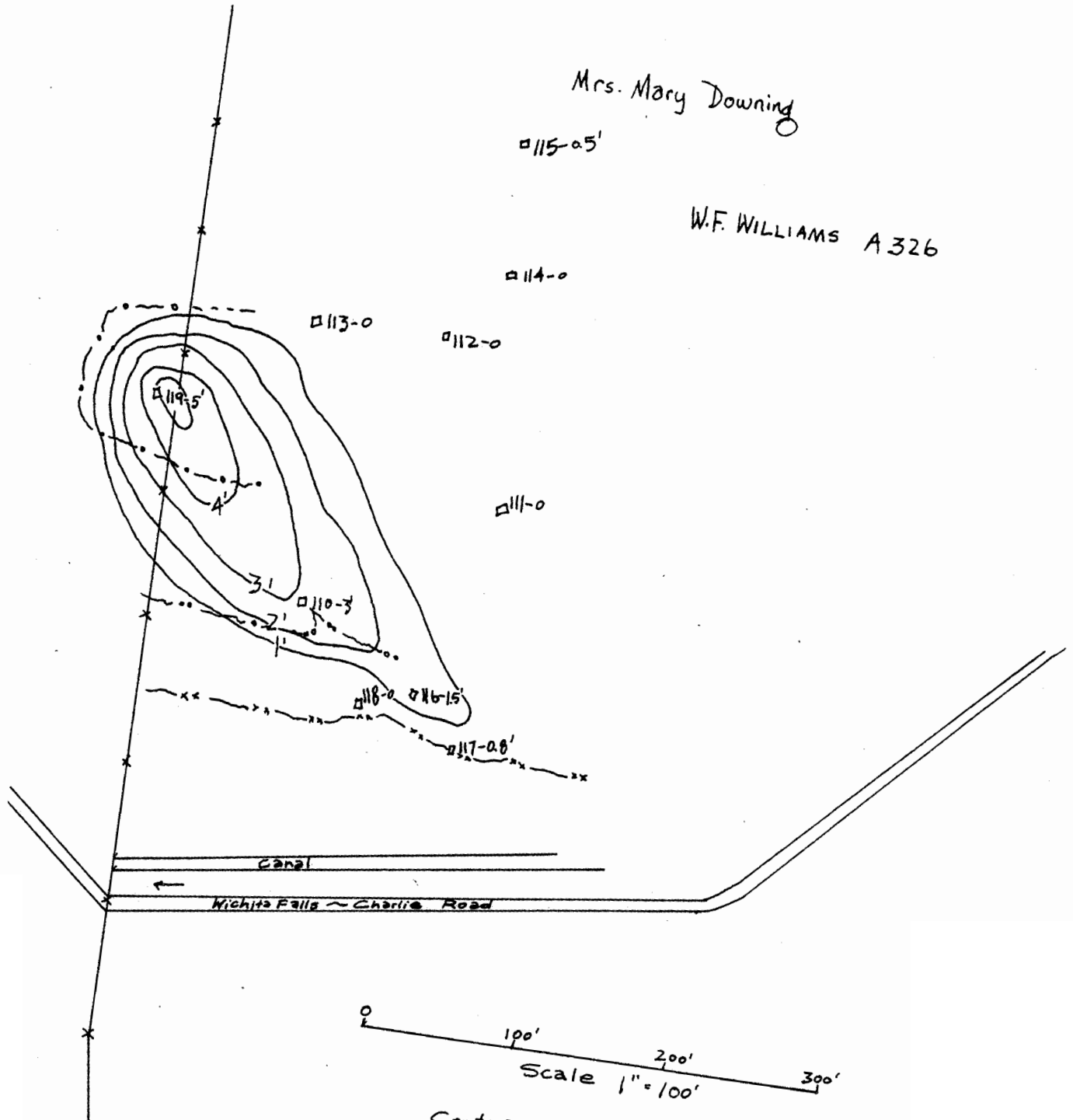
Location: 1000' E of SW line of tract L. Vess A-318, 4.5 miles east of Wichita Falls Airport.

Test # 120—dimensions 2' x 5' x 7.7'	from	to	Test # 121—dimensions 2' x 5' x 5'	from	to
Fine gravel	0.0	5.7	Gravel	0.0	2.0
Coarse gravel	5.7	7.7	Clay	2.0	5.0

Prospect #28

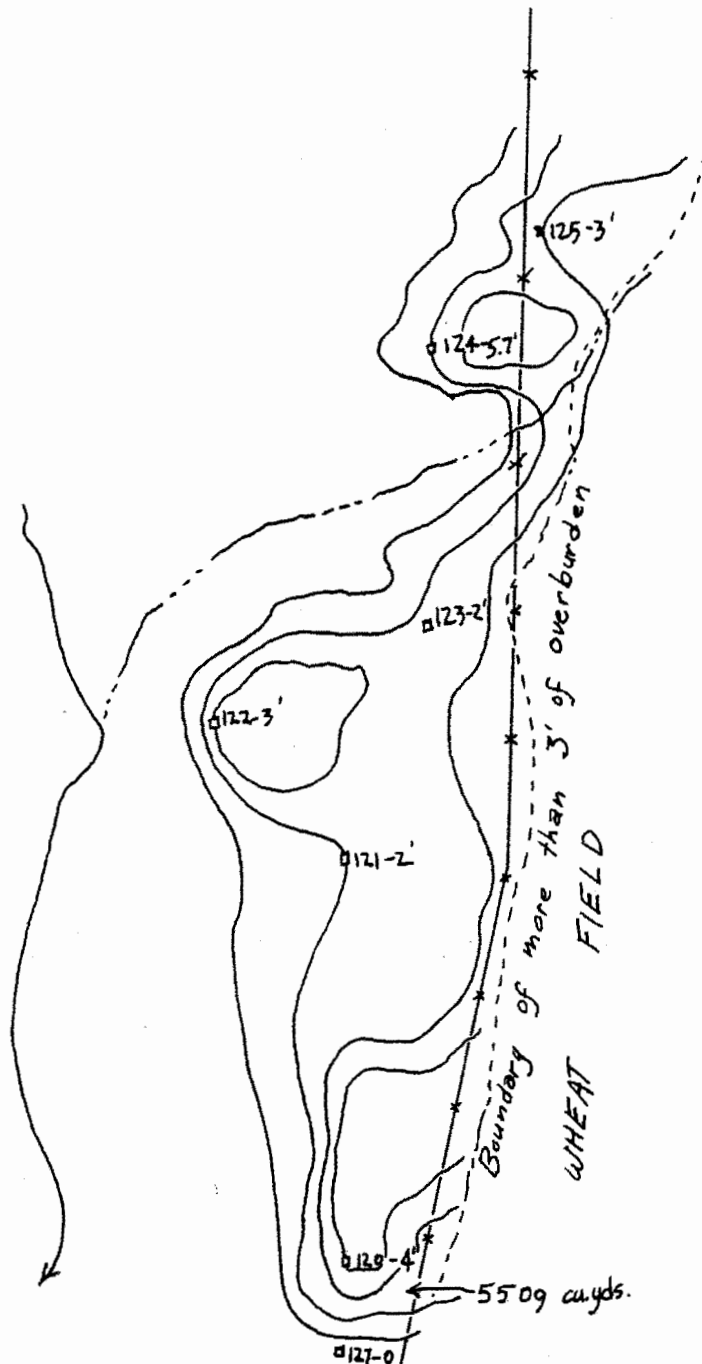
Mrs. Mary Downing

W.F. WILLIAMS A 326



Cont: 2917 cu. yds. Gravel
Cont. Int = 1'
~o~ Top of Gravel Bed
~oo~ Base of Gravel Bed
~xx~ Sandstone Bed

Prospect #29



↖ Magnolia Ref. Co.

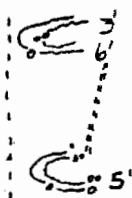
Mrs. A. FRIEBERG

L.V.E.S.S. A318

Contains 5,509 cu.yds. Gravel
 —●— Top of Gravel Bed
 - - - Base of Gravel Bed
 Cont. Int. - 1'



A 300 cu.yds. Gravel



Canal Flume

	from	to		from	to
	(feet)			(feet)	
<i>Test # 122—dimensions 2' x 5' x 5.3'</i>			<i>Test # 127—dimensions 2' x 5' x 6.5'</i>		
Fine gravel	0.0	2.5	Shale	0.0	2.0
Coarse gravel	2.5	4.5	Gravel	2.0	4.0
Shale	4.5	5.3	Sand	4.0	6.0
			Sandstone conglomerate	6.0	6.5
<i>Test # 123—dimensions 2' x 5' x 5.5'</i>			<i>Test # 128—dimensions 3' x 6' x 9.4'</i>		
Shale	0.0	2.0	Soil	0.0	1.0
Gravel	2.0	4.0	Fine gravel	1.0	3.3
Sandstone conglomerate	4.0	5.5	Sandstone conglomerate	3.3	5.1
			Sand and gravel	5.1	8.4
<i>Test # 124—dimensions 2' x 5' x 8.5'</i>			Sandstone conglomerate	8.4	9.4
Shale	0.0	4.0			
Gravel	4.0	8.0	<i>Test # 129—dimensions 3' x 5' x 9'</i>		
Sandstone conglomerate	8.0	8.5	Shale	0.0	3.0
			Gravel	3.0	8.0
<i>Test # 125—dimensions 2' x 5' x 5'</i>			Sandstone conglomerate	8.0	9.0
Shale	0.0	0.9			
Gravel	0.9	4.0	<i>Test # 130—dimensions 2' x 5' x 6'</i>		
			Gravel	0.0	2.0
<i>Test # 126—dimensions 3' x 6' x 8.5'</i>			Shale	2.0	3.0
Shale	0.0	4.0	Gravel	3.0	5.5
Gravel	4.0	8.0	Sandstone conglomerate	5.5	6.0
Sandstone conglomerate	8.0	8.5			

Prospect No. 30

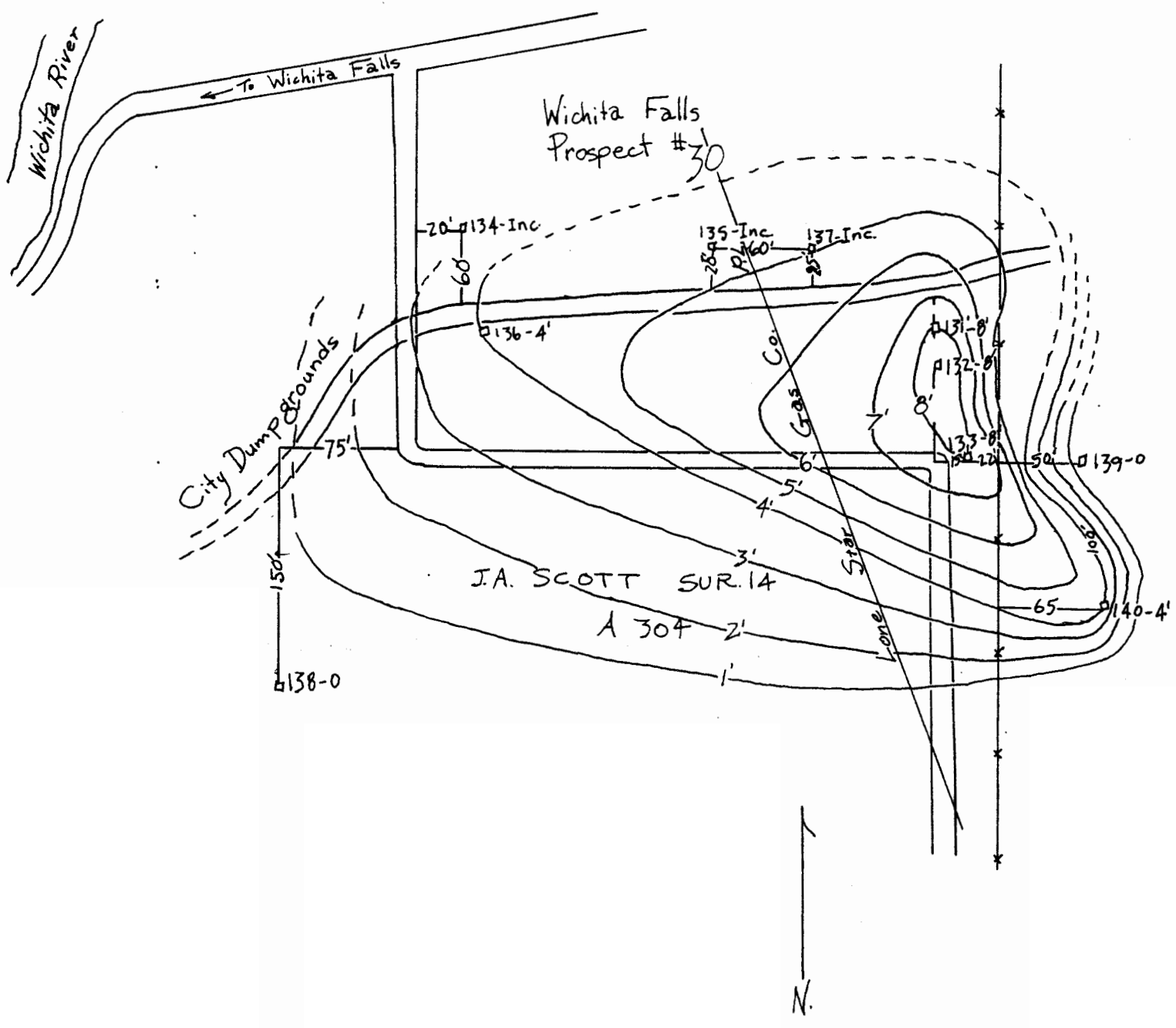
Location: One mile northeast of railroad depot survey 18 I. A. Scott A-304.

<i>Test # 131</i>			<i>Test # 136</i>		
Pack sand	0.0	12.0	Top soil and clay	0.0	6.0
Water sand	12.0	13.0	Fine sand	6.0	11.0
			Clay	11.0	12.0
<i>Test # 132</i>			Coarse sand	12.0	16.0
Surface sand	0.0	12.0	Clay	16.0	17.0
Pack sand	12.0	14.0	Medium sand	17.0	18.0
Fine sand	14.0	16.0	Clay	18.0	19.0
Coarse sand and gravel	16.0	20.0			
			<i>Test # 137—dimensions 6' x 3' x 8'</i>		
<i>Test # 133</i>			Clay	0.0	4.0
Surface soil, little sand	0.0	12.0	Fine sand	4.0	7.0
Fine sand	12.0	17.0	Clay	7.0	8.0
Coarse sand and gravel	17.0	22.0			
Good gravel	22.0	23.0	<i>Test # 138</i>		
			Pack sand	0.0	22.0
<i>Test # 134—dimensions 2' x 5' x 5'</i>					
Surface soil	0.0	2.0	<i>Test # 139</i>		
Sand	2.0	8.5	Pack sand	0.0	22.0
Clay and gumbo	2.5	5.0			
			<i>Test # 140</i>		
<i>Test # 135—dimensions 2' x 6' x 6'</i>			Soil and clayey sand	0.0	16.0
Clay	0.0	4.0	Fine sand	16.0	17.0
Sand	4.0	5.0	Clay and sand	17.0	20.0
Clay and gumbo	5.0	6.0	Gravel	20.0	22.0
			Gravel	22.0	plus 5000 cubic yards sand

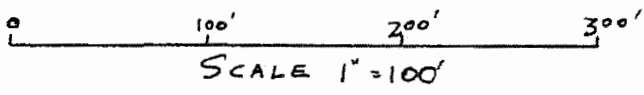
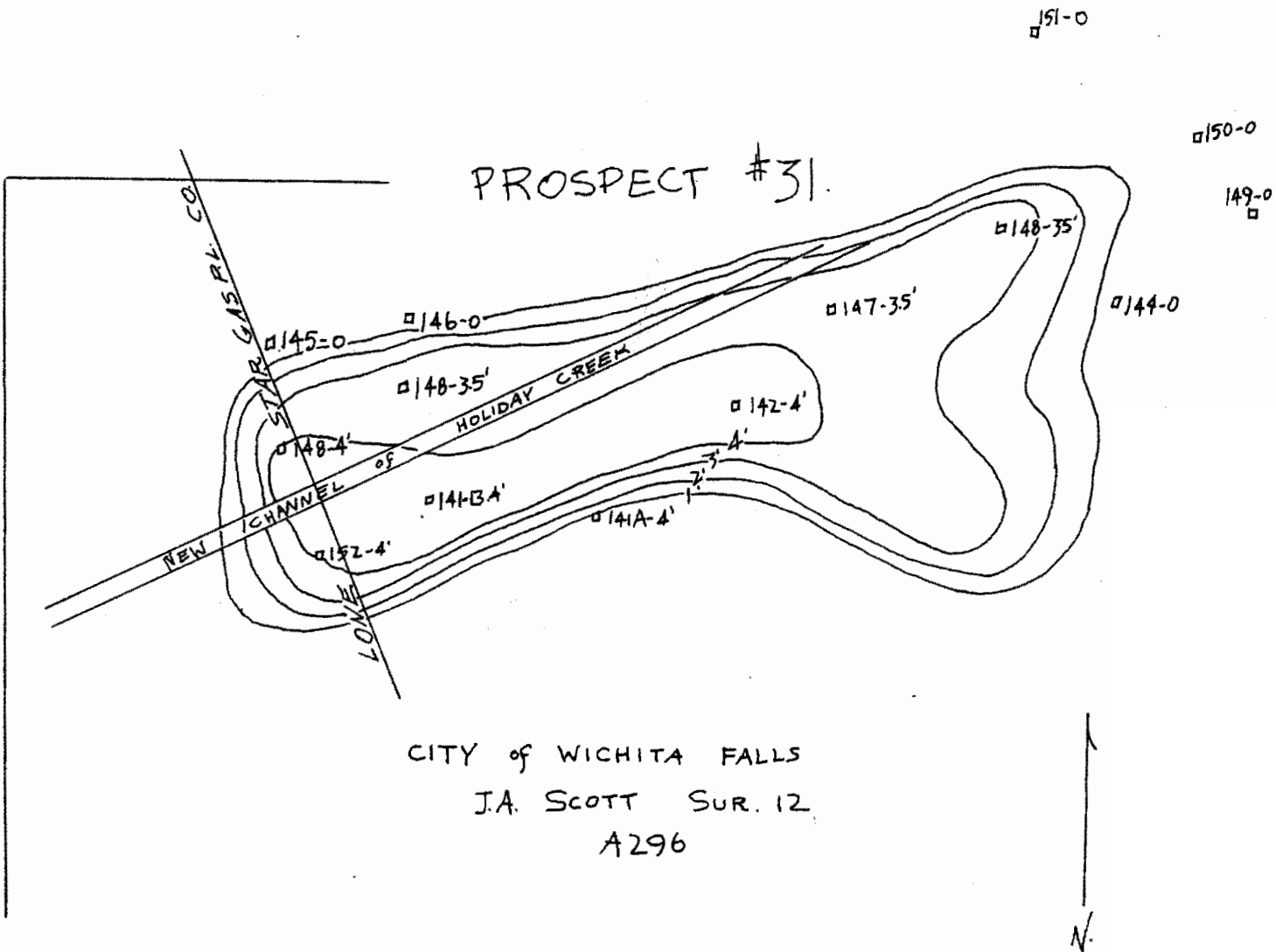
Prospect No. 31

Location: NW corner 40-acre tract, 1 mile east of railroad depot, in survey 12 J. A. Scott A-296.

<i>Test # 141—dimensions 3' x 6' x 12'</i>			<i>Test # 143—dimensions 3' x 10.5'</i>		
Red brick clay	0.0	4.0	Bank clay	0.0	7.0
White sand	4.0	8.0	Sand	7.0	10.5
Pack sand, little water	8.0	11.0			
Gravel	11.0	12.0	<i>Test # 144—dimensions 3' x 10.5'</i>		
Incomplete			Bank	0.0	7.0
			Sand	7.0	10.5
<i>Test # 142—dimensions 3' x 6' x 10'</i>					
Red clay	0.0	5.0	<i>Test # 145—dimensions 3' x 10.5'</i>		
Sand	5.0	9.0	Bank	0.0	7.0
Gravel	9.0	10.0	Sand	7.0	10.5



CONTAINS 5,000 cu.yds.
of
COARSE SAND.
16' Overburden



CONTAINS 6,000 cu.yds. COARSE SAND
2,000 cu.yds. GRAVEL

	from	to		from	to
	(feet)	(feet)		(feet)	(feet)
<i>Test # 147—dimensions 15' deep</i>			<i>Test # 149—dimensions 20' deep</i>		
Sand and clay	0.0	10.0	Clay, little sand	0.0	20.0
Fine sand	10.0	12.0	Water caving	20.0	
Coarse sand	12.0	15.0	<i>Test # 150—dimensions 20' deep</i>		
Water caving	15.0	0.0	Clay, no sand	0.0	20.0
<i>Test # 148—dimensions 14' deep</i>			<i>Test # 151—dimensions 20' deep</i>		
Sand clay	0.0	10.0	Pack sand	0.0	20.0
Fine sand	10.0	11.0	<i>Test # 152—dimensions 20' deep</i>		
Coarse sand	11.0	14.0	Pack sand	0.0	17.0
Water caving	14.0		Coarse sand, little water	17.0	3.0
			<i>6,000 cubic yards coarse sand, 2,000 cubic yards gravel.</i>		

Prospect No. 32

J. F. Long - E. Morrison A-186

Location: SW corner J. F. Long tract south bank riverbend E. Morrison A-186, 5 miles east of Wichita Falls Municipal Auditorium.

<i>Test # 153—dimensions 2' x 4' x 5'</i>			<i>Test # 162—dimensions 31' deep</i>		
Fine sand	0.0	3.0	Clay	0.0	5.0
Coarse sand	3.0	5.0	Fine sand	5.0	8.0
<i>Test # 154—dimensions 2' x 4' x 5'</i>			Coarse sand	8.0	21.0
Fine sand	0.0	2.0	Gravel	21.0	31.0
Coarse sand	2.0	5.0	<i>Test # 163—dimensions 15' deep</i>		
<i>Test # 155—dimensions 3' x 6' x 11'</i>			Red brick clay	0.0	8.0
Fine sand	0.0	2.0	Pack sand	8.0	12.0
Coarse sand	2.0	5.0	Brick clay	12.0	15.0
Gravel	5.0	11.0	<i>Test # 164—dimensions 13.5' deep</i>		
<i>Test # 156—dimensions 2' x 5' x 6'</i>			Brick clay	0.0	8.0
Fine sand	0.0	1.0	Pack sand	8.0	11.0
Coarse sand	1.0	2.0	Brick clay	11.0	13.5
Gravel	2.0	6.0	<i>Test # 165—dimensions 17' deep</i>		
<i>Test # 157—dimensions 5' x 8' x 14.7'</i>			Red brick clay	0.0	5.5
Fine sand	0.0	1.0	Clay and sand	5.5	6.5
Coarse sand	1.0	4.7	Pack sand	6.5	9.0
Gravel	4.7	14.7	Coarse sand	9.0	10.5
<i>Test # 158—dimensions 6' x 8' x 16'</i>			Sand and gravel	10.5	13.0
Fine sand	0.0	1.0	Coarse sand	13.0	14.0
Coarse sand	1.0	6.0	Fine sand	14.0	17.0
Gravel	6.0	16.0	<i>Test # 166—dimensions 20' deep</i>		
<i>Test # 159—dimensions 6' x 6' x 10'</i>			Red brick clay	0.0	5.0
Coarse sand	0.0	1.0	Fine sand	5.0	10.0
Gravel	1.0	10.0	Coarse sand	10.0	15.0
<i>Test # 160—dimensions 6' x 6' x 11'</i>			Brick clay	15.0	17.0
Fine sand	0.0	2.0	Fine pack sand	17.0	20.0
Coarse sand	2.0	3.0	<i>Test # 167—dimensions 9.1' deep</i>		
Gravel	3.0	11.0	Red brick clay	0.0	5.0
<i>Test # 161—dimensions 28' deep</i>			Clay and sand	5.0	9.0
Clay	0.0	5.0	Hard sandstone	9.0	9.1
Shale	5.0	6.0	<i>Test # 168—dimensions 15' deep</i>		
Fine sand	6.0	11.0	Clay	0.0	6.0
Gravel	11.0	21.0	Pack sand	6.0	15.0
			<i>Test # 169—dimensions 23' deep</i>		
			Bridge clay	0.0	8.0
			Pack sand	8.0	23.0
			<i>Contains 33,000 cubic yards coarse sand, 32,439 cubic yards gravel.</i>		

Prospect No. 33

City of Wichita Falls

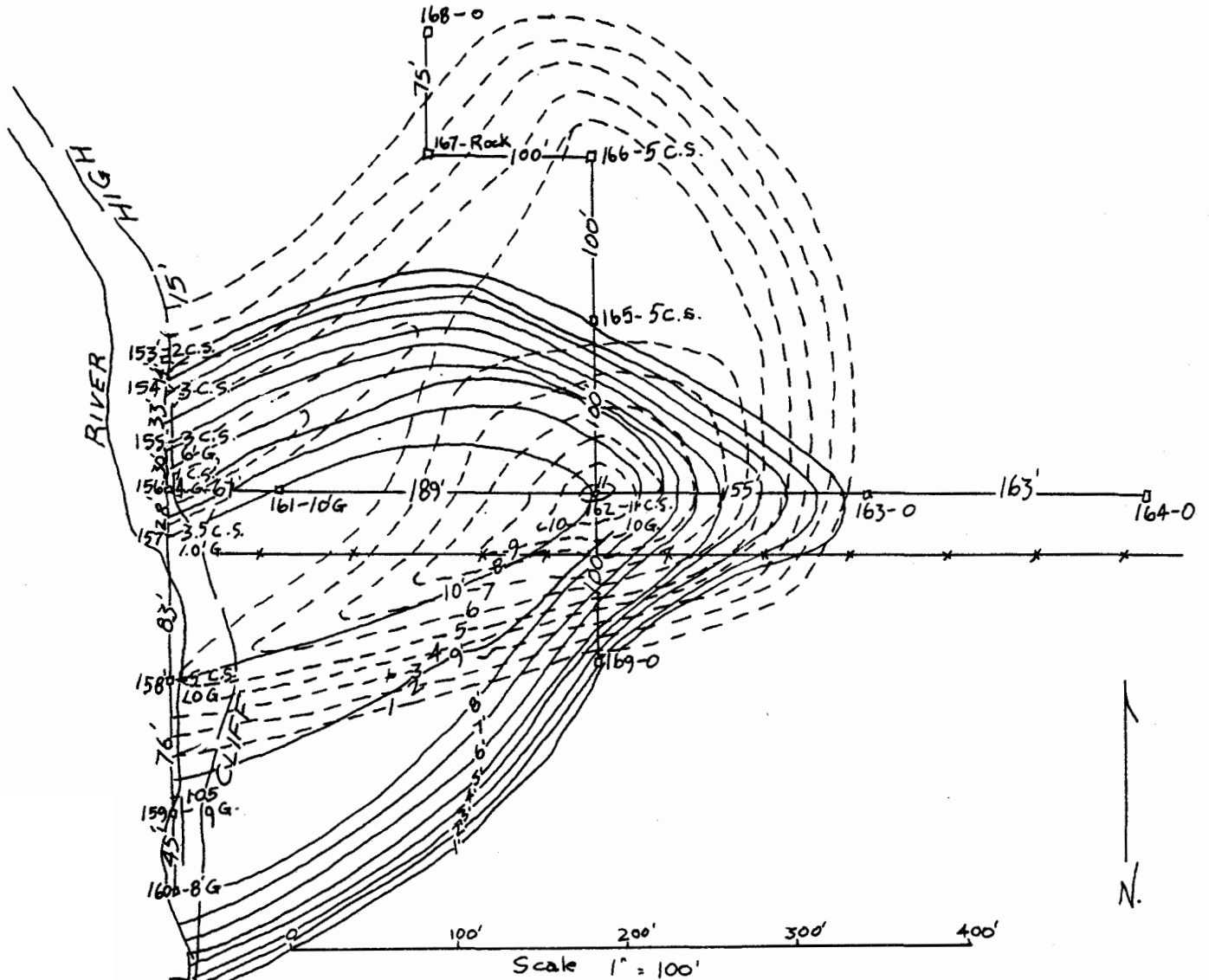
Location: 200' SE of disposal plant, 1 mile northeast of depot J. A. Scott survey 14 A-304.

<i>Test # 170—dimensions 7' x 3' x 6'</i>			<i>Test # 171—dimensions 3' x 7' x 5'</i>		
Pack sand	0.0	0.5	Quicksand	0.0	3.0
Red brick clay	0.5	15.0	Brick clay	3.0	14.0
Coarse sand	15.0	18.0			

PROSPECT #32

J.F. LONG

E. MORRISON A186



LEGEND: C.S. Coarse sand
 G Gravel
 --- River cliff 15' high
 --- Water overlapping gravel deposit
 --- Contour projected upon coarse sand
 --- Contour projected upon gravel deposit
 --- Contour Interval = 1 foot
 contains 33,000 cu.yds., coarse sand
 contains 32,437 cu.yds., Gravel

CITY OF WICHITA FALLS
PROSPECT #33

J.A. SCOTT SUR. 14 A-304

City
Disposal
Plant

170-0

172-2

171-0

173-0



Scale 1" = 100'

174-0

	from (feet)	to		from (feet)	to
<i>Test # 172—dimensions 5' x 9' x 11'</i>			<i>Test # 173—dimensions 4' x 7' x 5.5'</i>		
Pack sand	0.0	4.0	Pack sand	0.0	5.0
Red brick clay	4.0	17.0	Brick clay	5.0	15.0
Coarse sand	17.0	19.0	Pack sand	15.0	17.0
Gravel	19.0	20.0			
			<i>Test # 174—dimensions 2' x 3' x 3.5'</i>		
			Pack sand	0.0	3.5
			<i>Water, no sand or gravel. Good brick clay.</i>		

Prospect No. 34

City of Wichita Falls

Location: One mile northeast of depot; northeast corner of J. A. Scott Survey 12 A-296.

<i>Test # 175—dimensions 3' x 7' x 5.5'</i>			<i>Test # 177—dimensions 2' x 6' x 5'</i>		
Red sand	0.0	2.5	Red shale	0.0	2.0
Sand and little gravel	2.5	5.5	River sand	2.0	5.0
			<i>Test # 178</i>		
<i>Test # 176—dimensions 3' x 6' x 10'</i>			Pack sand	0.0	13.0
Pack sand	0.0	3.5	Sand	13.0	20.0
Coarse sand	3.5	9.5			
Pack sand	9.5	10.0	<i>Test # 179</i>		
			Pack sand	0.0	13.0
			River sand <i>4,000 cubic yards medium sand.</i>	12.0	19.0

Prospect No. 35

C. P. and F. Fore

Location: 500' E of W.L. and 2640' S of N. line of J. Campbell A-39; 4000' N of depot, Wichita Falls, Texas.

<i>Test # 180—dimensions 12' deep</i>			<i>Test # 184—dimensions 12' deep</i>		
Brick clay	0.0	3.0	Brick clay	0.0	2.0
Hard shale	3.0	6.0	Pack sand	2.0	6.0
Coarse sand and gravel watered	6.0	12.0	Gravel	9.0	12.0
			Coarse sand	6.0	9.0
<i>Test # 181—dimensions 12' deep</i>			<i>Test # 185—dimensions 8' deep</i>		
Red brick clay	0.0	6.0	Brick clay	0.0	2.0
Coarse sand and gravel (water)	6.0	12.0	Pack sand	2.0	4.0
			Coarse sand	4.0	8.0
<i>Test # 182—dimensions 19' deep</i>			<i>Test # 186—dimensions 3' x 6' x 5'</i>		
Red brick clay	0.0	14.0	Brick clay	0.0	5.0
Sand and gravel	14.0	19.0			
<i>Test # 183—dimensions 12' deep</i>			<i>Test # 187—dimensions 3' x 7' x 6'</i>		
Brick clay	0.0	6.0	Red brick clay	0.0	5.0
Sand and gravel (water)	6.0	12.0	Water sand <i>10,000 cubic yards sand and gravel.</i>	5.0	6.0

Prospect No. 36

Geo. Garner

Location: River bed J. A. Scott Survey 14 A-304, 3 miles northeast of railroad depot, Wichita Falls, Texas.

<i>Test # 188—dimensions 3' x 6' x 8'</i>			<i>Test # 191—dimensions 3' x 5' x 9'</i>		
Brick clay	0.0	4.0	Pack sand	0.0	3.0
Medium river sand	4.0	8.0	Coarse sand	3.0	6.0
			Gravel and water	6.0	9.0
<i>Test # 189—dimensions 3' x 5' x 8'</i>			<i>Test # 192—dimensions 5' x 5' x 12'</i>		
Brick clay	0.0	4.0	Pack sand	0.0	4.0
River sand	4.0	8.0	Coarse sand	4.0	8.0
<i>Test # 190—dimensions 3' x 5' x 11'</i>			Gravel	8.0	12.0
Pack sand	0.0	5.0	<i>Contains 5,000 cubic yards coarse sand and gravel.</i>		
Coarse sand	5.0	11.0			

Prospect No. 37

Mrs. A. Frieberg

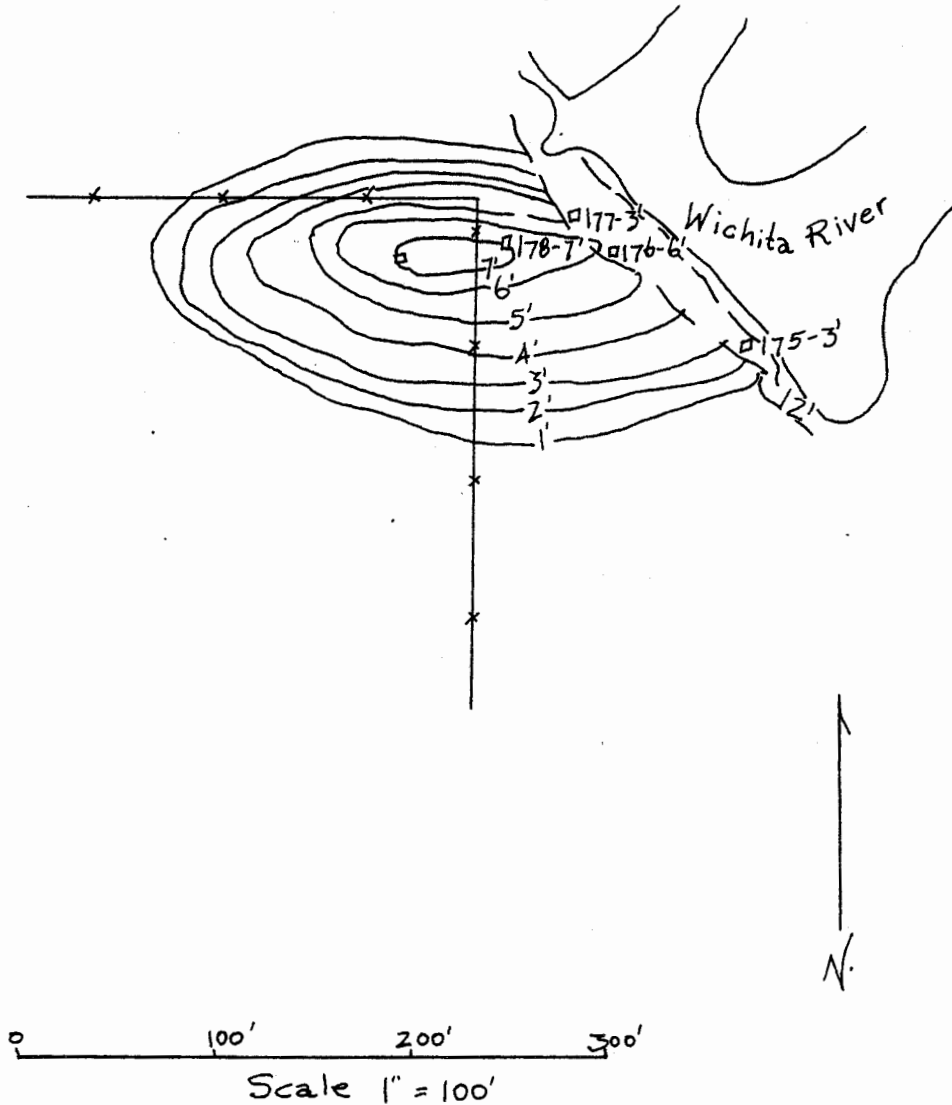
Location: 600' E of W.L. and 300' N of canal L. Uess Survey A-318, 4 miles east of Wichita Falls Airport.

<i>Test # 193—dimensions 3' x 6' x 6.5'</i>			<i>Test # 194—dimensions 3' x 6' x 7'</i>		
Soil	0.0	0.5	Gravel	0.0	6.5
Gravel	0.5	6.5	Pack sand	6.5	7.0
Red clay	6.5	7.5			

CITY of WICHITA FALLS

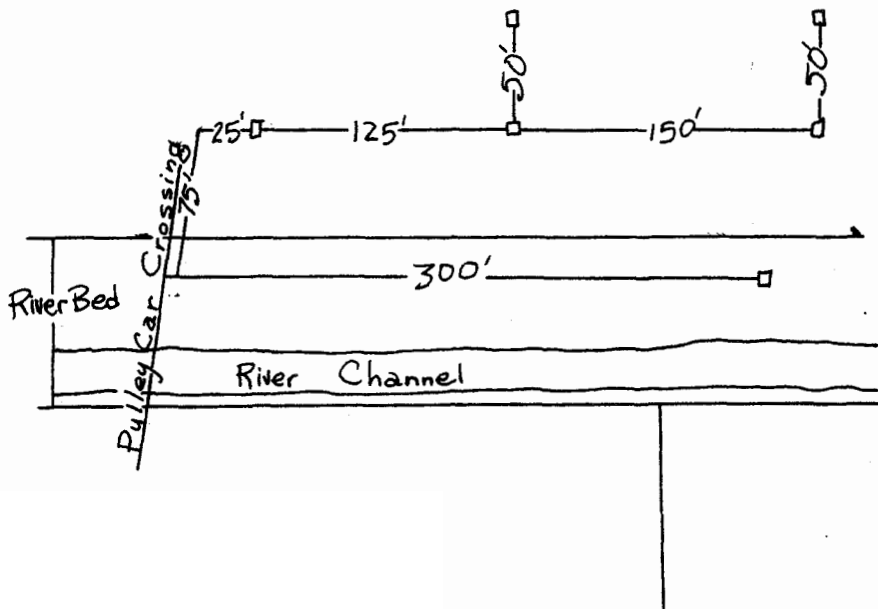
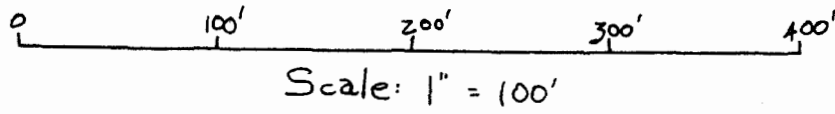
Prospect #34

J.A SCOTT SUR. 12 A-296



LEGEND ——— Cliff 12' high
- - - Cliff 5' high
Cont. Int. = 1'
Contains 4,000 cu. yds. medium sand

Prospect #36



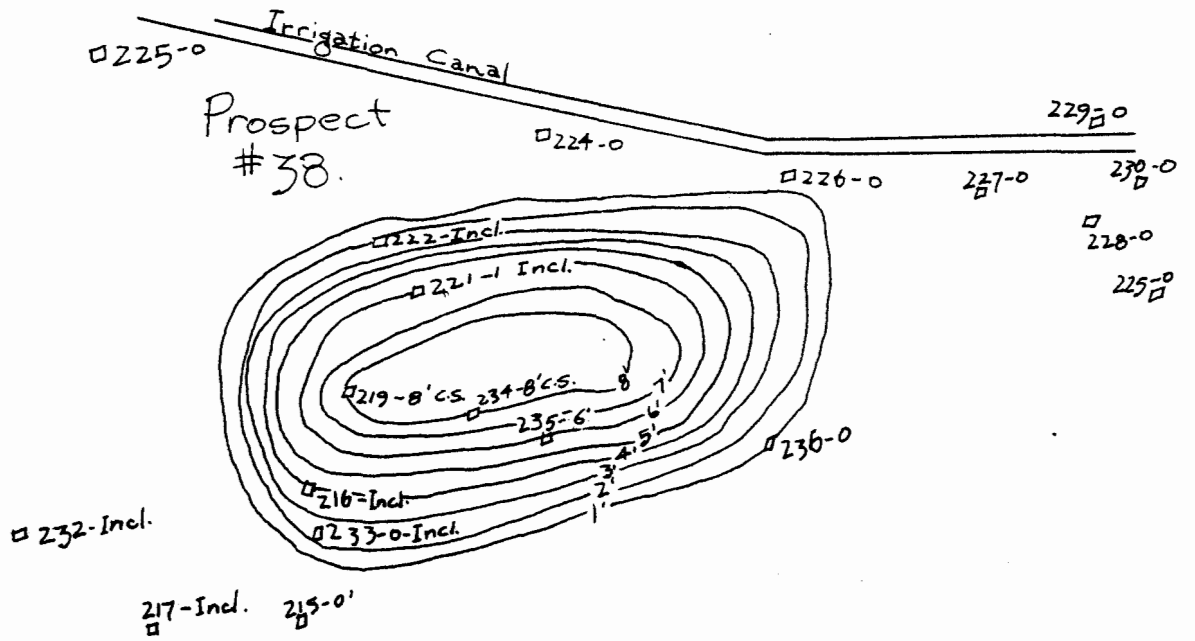
	from to (feet)		from to (feet)
<i>Test # 195—dimensions 3' x 6' x 4'</i>		<i>Test # 198—dimensions 3' x 6' x 5'</i>	
Soil	0.0 4.0	Soil	0.0 2.0
<i>Test # 196—dimensions 3' x 6' x 5.5'</i>		Gravel	2.0 5.0
Soil	0.0 3.0	<i>Test # 199—dimensions 3' x 6' x 4.5'</i>	
Gravel	3.0 4.5	Red shale	0.0 1.5
Red shale	4.5 5.5	Gravel	1.5 3.5
<i>Test # 197—dimensions 3' x 6' x 5'</i>		Shale	3.5 4.5
Soil	0.0 2.0	<i>Contains 12,000 cubic yards gravel</i>	
Red shale	2.0 5.0		

Prospect No. 38

Deming Investment Co.—F. R. Kelchmer, manager, Durant, Oklahoma

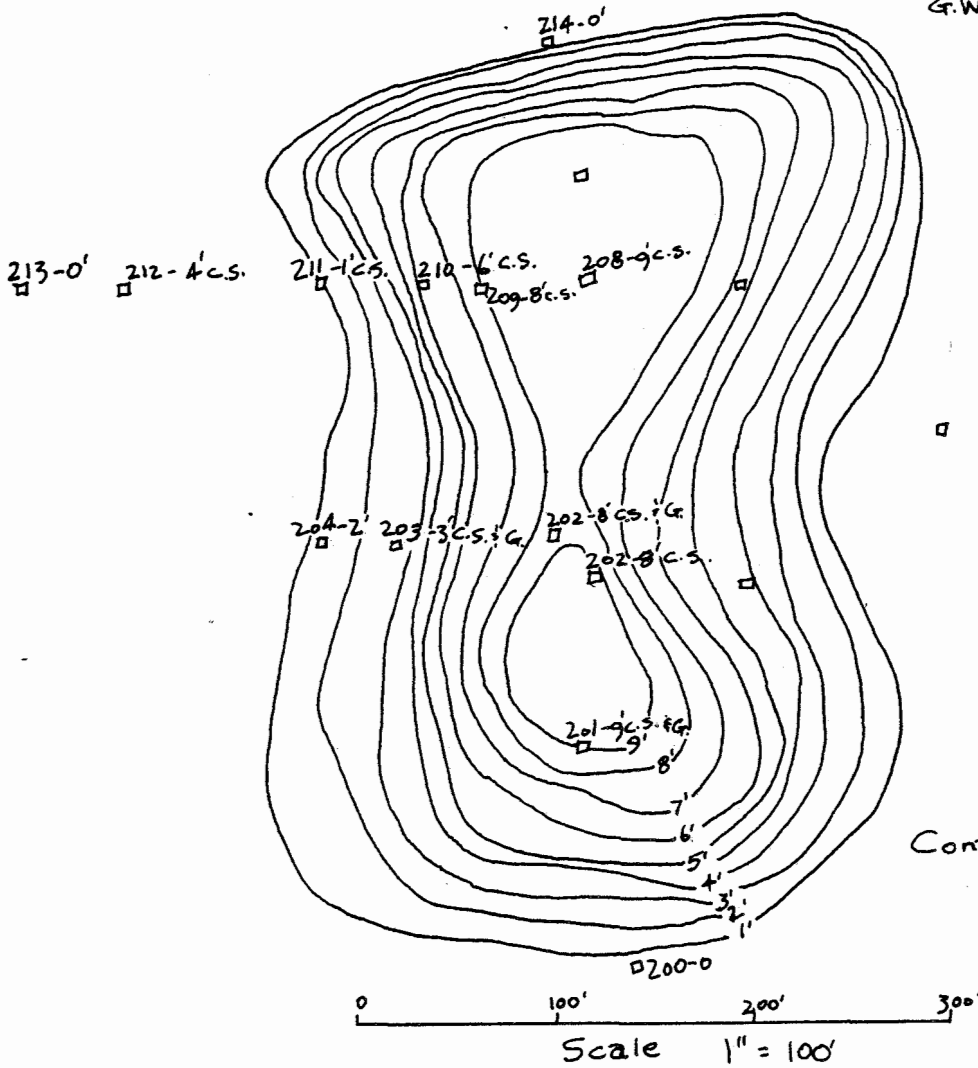
Location: East side south half tract in east part G. W. Childers Survey A-32, 4.5 miles northeast center of Wichita Falls, Texas.

<i>Test # 200—dimensions auger</i>		<i>Test # 210—dimensions auger</i>	
Pack sand	0.0 4.0	Red brick clay	0 6
Red brick clay (water) <i>Cavings</i>	4.0 7.0	Pack sand	6 9
<i>Test # 201—dimensions auger</i>		Coarse sand	9 11
Black soil	0.0 2.0	Coarse sand caving	11 15
Pack sand	2.0 7.0	<i>Test # 211—dimensions auger</i>	
Fine sand	7.0 7.9	Red brick clay	0 4
Coarse sand	9.0 18.0	Pack sand	4 7
<i>Test # 202—dimensions auger</i>		Sand and gravel	7 8
Black sand	0.0 2.0	Red brick clay	8 12
Pack sand	2.0 7.0	<i>Test # 212—dimensions auger</i>	
Red clay	7.0 11.0	Red brick clay	0 5
Sand and gravel	11.0 19.0	Pack sand	5 11
<i>Test # 203—dimensions auger</i>		Coarse	11 12
Red brick clay	0.0 8.0	<i>Test # 213—dimensions auger</i>	
Pack sand	8.0 10.0	Red brick clay	0 5
Coarse sand and gravel	10.0 13.0	Pack sand	5 11
Red brick clay	13.0 15.0	Red brick clay	11 12
<i>Test # 204—dimensions auger</i>		Mud caving	12 13
Red brick clay	0.0 4.0	<i>Test # 214—dimensions auger</i>	
Pack sand	4.0 8.0	Red brick clay	0 4
Sand and gravel	8.0 12.0	Yellow clay	4 6
Red brick clay	12.0 15.0	Pack sand	6 8
<i>Test # 206—dimensions auger</i>		Red clay	8 12
Red brick clay	0.0 6.0	<i>Test # 215—dimensions auger</i>	
Pack sand	6.0 8.0	Red brick clay	0 4
Coarse sand	8.0 9.0	Yellow clay	4 6
Red brick clay	9.0 15.0	Pack sand	6 9
<i>Test # 207—dimensions auger</i>		Mud caving	9 9
Red brick clay	0.0 4.0	<i>Test # 216—dimensions auger</i>	
Pack sand	4.0 9.0	Red brick clay	0 9
Coarse sand	9.0 17.0	Pack sand	9 12
<i>Test # 208—dimensions auger</i>		Yellow clay	12 13
Red brick clay	0 6	<i>Test # 217—dimensions 3' x 6' x 5'</i>	
Pack sand	6 8	Red brick clay	0 5
Red clay	8 10	<i>Test # 218—dimensions 3' x 5' x 5'</i>	
Coarse sand	10 19	Red brick clay	0 5
<i>Test # 209—dimensions auger</i>		<i>Test # 219—dimensions 2' x 5' x 5'</i>	
Red brick clay	0 4	Red brick clay	0 3
Pack sand	4 9	Good gravel <i>Caving</i>	3 5
Coarse sand	9 12	Good gravel	5 11
Sand	12 17		



DEMING INVESTMENT Co.

G.W. CHILDERS A-32.



Contains 120,380 cu. yds.
Concrete sand & Gravel.

	from	to		from	to
	(feet)			(feet)	
<i>Test # 220—dimensions 2' x 5' x 5'</i>			<i>Test # 231—dimensions 3' x 7' x 6'</i>		
Red brick clay	0	3	Red brick clay	0	6
Gravel	3	4			
Red brick clay	4	5	<i>Test # 232—dimensions 3' x 5' x 4'</i>		
<i>Test # 221—dimensions 3' x 5' x 6'</i>			Red brick clay	0	4
Red brick clay	0	3			
Coarse sand	3	4	<i>Test # 233—dimensions 2' x 6' x 5'</i>		
Red brick	4	6	Red brick clay	0	5
<i>Test # 222—dimensions 3' x 5' x 5'</i>					
Red brick clay			<i>Test # 234—dimensions auger</i>		
<i>Test # 223—dimensions 3' x 5' x 5'</i>			Red brick clay	0	8
Red brick clay	0	5	Gravel	8	16
<i>Test # 224—dimensions 2' x 5' x 3'</i>					
Red brick clay	0	3	<i>Test # 235—dimensions auger</i>		
<i>Test # 225—dimensions 3' x 5' x 5'</i>			Red brick clay	0	10
Red brick clay	0	5	Coarse sand	10	16
<i>Test # 226—dimensions 2' x 5' x 4'</i>					
Red brick clay	0	4	<i>Test # 236—dimensions auger</i>		
<i>Test # 227—dimensions 2' x 5' x 5'</i>			Red brick clay	0	8
Red brick clay	0	5	Fine water sand	8	10
<i>Test # 228—dimensions 2' x 5' x 4'</i>					
Red brick clay	0	4	<i>Test # 237—dimensions auger</i>		
<i>Test # 229—dimensions 3' x 4' x 4'</i>			Soil sandy	0	3
Red brick clay	0	4	Coarse sand	3	10
<i>Test # 230—dimensions 2' x 5' x 5'</i>					
Red brick clay	0	5	<i>Test # 238—dimensions auger</i>		
			Fine sand	0	3
			Gravel	3	10
			<i>Test # 239—dimensions auger</i>		
			Fine sand	0	3
			Gravel	3	8

Prospect No. 39

I. Markowitz, et al

Location: 550' W of center E.L. of tract out of W. M. Kepler Survey A-170, 3 miles west and 3 miles south, Burkburnett, Texas.

<i>Test # 240—dimensions 3' x 6' x 4'</i>			<i>Test # 247—dimensions 3' x 6' x 6.5'</i>		
Soil	0.0	1.0	Soil	0.0	3.0
Red shale	1.0	3.5	Gravel and sandstone conglomerate	3.0	4.5
Gravel	3.5	6.0	Gray shale	4.5	6.5
<i>Test # 241—dimensions auger</i>			<i>Test # 248—dimensions 2' x 5' x 3.5'</i>		
Soil	0.0		Soil	0.0	0.5
Hard red shale	0.5	3.0	Fine gravel and sand	0.5	3.0
<i>Test # 242—dimensions auger</i>			Sandstone conglomerate	3.0	3.5
Soil	0.0	2.0	<i>Test # 249—dimensions auger</i>		
<i>Test # 243—dimensions 3' x 6' x 5.5'</i>			Surface soil	0.0	1.0
Soil	0.0	0.5	Hard red clay	1.0	4.0
Gravel	0.5	4.5	<i>Test # 250—dimensions 3' x 5' x 5'</i>		
Red and gray shale	4.5	5.5	Soil	0.0	0.5
<i>Test # 244—dimensions 3' x 6' x 5.5'</i>			Gravel sandstone conglomerate	0.5	4.0
Soil	0.0	2.5	Gray shale	4.0	5.0
Gravel	2.5	5.5	<i>Test # 251—dimensions 3' x 5' x 4.5'</i>		
<i>Test # 245—dimensions 3' x 6' x 4'</i>			Soil	0.0	2.0
Soil	0.0	0.5	Shale	2.0	4.0
Gravel	0.5	1.0	Gravel, sandstone conglomerate	4.0	4.5
Gray shale	1.0	4.0	<i>Test # 252—dimensions 2' x 5' x 4'</i>		
<i>Test # 246—dimensions 3' x 6' x 5'</i>			Soil	0.0	1.0
Soil	0.0	0.5	Gravel	1.0	4.0
Gravel	0.5	4.0	<i>Test # 253—dimensions 3' x 5' x 3.3'</i>		
Gray shale	4.0	5.0	Soil	0.0	0.8
			Gravel	0.8	2.8
			Sandstone conglomerate	2.8	3.3

	from (feet)	to (feet)		from (feet)	to (feet)
<i>Test # 254—dimensions 3' x 6' x 6'</i>					
Soil	0.0	1.0			
Shale	1.0	3.0			
Gravel	3.0	6.0			
Prospect No. 40					
I. Markowitz					
Location: 300' E of Prospect No. 39.					
<i>Test # 255—dimensions 3' x 5' x 5.4'</i>			<i>Test # 259—dimensions 3' x 3' x 4'</i>		
Soil	0.0	0.5	Soil	0.0	0.8
Hard shale	0.5	2.0	Gravel	0.8	1.1
Gravel	2.0	5.0	Gray shale	1.1	4.0
<i>Test # 256—dimensions 3' x 6' x 6.5'</i>			<i>Test # 260—dimensions 3' x 6' x 6'</i>		
Soil	0.0	0.5	Soil	0.0	1.0
Gravel	0.5	2.0	Gravel	1.0	3.0
Sandstone conglomerate	2.0	4.0	Red shale	3.0	6.0
Red sand	4.0	6.0			
Yellow clay	6.0	6.5	<i>Test # 261—dimensions 3' x 5' x 4'</i>		
<i>Test # 257—dimensions auger</i>			Soil	0.0	0.5
Soil	0.1	1.0	Gravel	0.5	2.0
Gravel	1.0	5.0	Gravel and sandstone conglomerate	2.0	4.0
<i>Test # 258—dimensions 3' x 6' x 6'</i>			<i>Test # 262—dimensions 3' x 4' x 4'</i>		
Soil	0.0	1.5	Mottled shale	0.0	4.0
Gravel	1.5	5.5			
Buff clay	5.5	6.0			
Prospect No. 41					
F. P. Warren					
Location: 560' W of center E.L. of tract, being W ½ of W. M. Kepler Survey A-170, 3 miles west and 3 miles south, Burkburnett, Texas.					
<i>Test # 263—dimensions 3' x 5' x 3.5'</i>			<i>Test # 271</i>		
Shale	0.0	3.0	Sand and clay	0.0	6.0
Sandstone conglomerate	3.0	3.5	<i>Test # 272—dimensions 3' x 6' x 6'</i>		
<i>Test # 264—dimensions 3' x 5' x 4'</i>			Soil, sand, clay	0.0	6.0
Soil	0.0	2.0	<i>Test # 273—dimensions 2' x 5' x 5'</i>		
Gravel with clay	2.0	3.5	Soil and sand and clay	0.0	6.0
Shale	3.5	4.0	<i>Test # 274—dimensions 2' x 5' x 5'</i>		
<i>Test # 265—dimensions 3' x 5' x 3.3'</i>			Sand and clay	0.0	5.0
Hard red shale	0.0	3.0	<i>Test # 275—dimensions 2' x 5' x 5'</i>		
Sandstone conglomerate gravel	3.0	6.0	Sand and clay	0.0	5.0
<i>Test # 266</i>			<i>Test # 276—dimensions auger</i>		
Red shale	0.0	3.0	Soil	0.0	5.0
Buff brick clay	3.0	5.0	<i>Test # 277—dimensions auger</i>		
<i>Test # 267—dimensions 3' x 5' x 4.5'</i>			Soil	0.0	3.0
Red shale	0.0	2.0	Gravel	3.0	3.5
Gravel	2.0	3.5	Water sand	3.5	4.5
Gray shale	3.5	4.5	<i>Test # 278—dimensions auger</i>		
<i>Test # 268—dimensions 3' x 6' x 4'</i>			Sand and shale	0.0	2.5
Hard shale	0.0	3.0	Gravel	2.5	3.2
Sandstone conglomerate	3.0	4.0	Water sand	3.2	3.8
Gravel	4.0	6.0	<i>Test # 279—dimensions auger</i>		
<i>Test # 269</i>			Sand and shale	0.0	5.5
Soil	0.0	1.0	<i>Test # 280—dimensions 3' x 6' x 8'</i>		
Fine gravel	1.0	4.0	Soil and sand	0.0	3.0
Mottled shale	4.0	6.0	Gravel (fine)	3.0	3.3
<i>Test # 270</i>			Soil and sand	3.3	6.3
Red shale	0.0	2.0	Gravel	6.3	8.0
Gravel	2.0	3.5			
Gray shale	3.5	4.5			

	from to (feet)		from to (feet)
Test # 281—dimensions auger		Test # 282—dimensions 3' x 6' x 8'	
Soil	0.0 3.0	Soil and shale Gravel pit exhausted.	0.0 8.0

Prospect No. 43

M. J. Owen (Mrs. Bertha Powell)

Location: 500' E of W.L. of Survey 19 Red River Valley lands, 3.5 miles west and 1.5 miles south of center Burkburnett, Texas.

Test # 283—dimensions 12" hole		Test # 295—dimensions 3' x 5' x 9'	
Soil	0.0 0.5	Yellow shale	0.0 0.5
Buff shale	0.5 2.5	Red caliche sandstone	0.5 9.0
Test # 284		Test # 296—dimensions 3' x 6' x 7.5'	
Shale	0.0 0.5	Soil	0.0 0.5
Red caliche	0.5 1.0	Red caliche sandstone	0.5 7.0
Test # 285—dimensions 12" hole		Gray sandstone	7.0 7.5
Soil	0.0 1.0	Test # 297	
Buff shale	1.0 3.0	Soil	0.0 1.5
Test # 286—dimensions 3' x 4' x 4'		Red caliche	1.5 7.5
Buff shale	0.0 2.5	Test # 298—dimensions 3' x 4' x 3.8'	
Red caliche sandstone	2.5 3.5	Soil	0.0 1.8
Gray sandstone	3.5 4.0	Red caliche sandstone	1.8 3.3
Test # 287—dimensions 3' x 6' x 9'		Blue shale	3.3 3.8
Buff shale	0.0 2.0	Test # 299—dimensions 3' x 5' x 6'	
Red caliche	2.0 9.0	Sandstone conglomerate	0.0 0.4
Test # 288—dimensions 3' x 5' x 4'		Gravel	0.4 0.9
Soil	0.0 1.0	Yellow shale	0.9 6.0
Yellow shale	1.0 4.0	Test # 300—dimensions auger	
Test # 289—dimensions 3' x 6' x 6'		Brown shale	0.0 2.7
Yellow shale	0.0 1.0	Gravel	2.7 3.2
Red caliche sandstone	1.0 6.0	Sandstone conglomerate	3.2 3.5
Test # 290—dimensions 3' x 7' x 9'		Test # 301—dimensions 2' x 9' x 10'	
Soil	0.0 1.5	Shale	0.0 2.5
Red caliche sandstone	1.5 8.5	Gravel	2.5 5.0
Gray sandstone	8.5 9.0	Red caliche sandstone	5.0 10.0
Test # 291—dimensions 3' x 6' x 7.5'		Test # 302—dimensions 3' x 5' x 4'	
Soil	0.0 2.5	Red caliche sandstone	0.0 1.0
Red caliche sandstone	2.5 9.5	Red shale	1.0 2.0
Test # 292—dimensions 3' x 5' x 3'		Yellow shale	2.0 3.0
Joint clay	0.0 1.5	Test # 303—dimensions 2' x 4' x 6'	
Yellow clay	1.5 3.0	Buff shale	0.0 2.5
Test # 293—dimensions 3' x 5' x 7.2'		Red clay	2.5 5.0
Soil	0.0 0.5	Gray shale	5.0 6.0
Red caliche sandstone	0.5 7.5	Test # 304—dimensions 12" hole	
Test # 294—dimensions 2' x 2' x 6'		Yellow shale	0.0 3.0
Soil	0.0 1.5	<i>Contains 2,700 cubic yards red caliche sandstone, 1,100 cubic yards gravel.</i>	
Red caliche sandstone	1.5 7.5		

Prospect No. 44

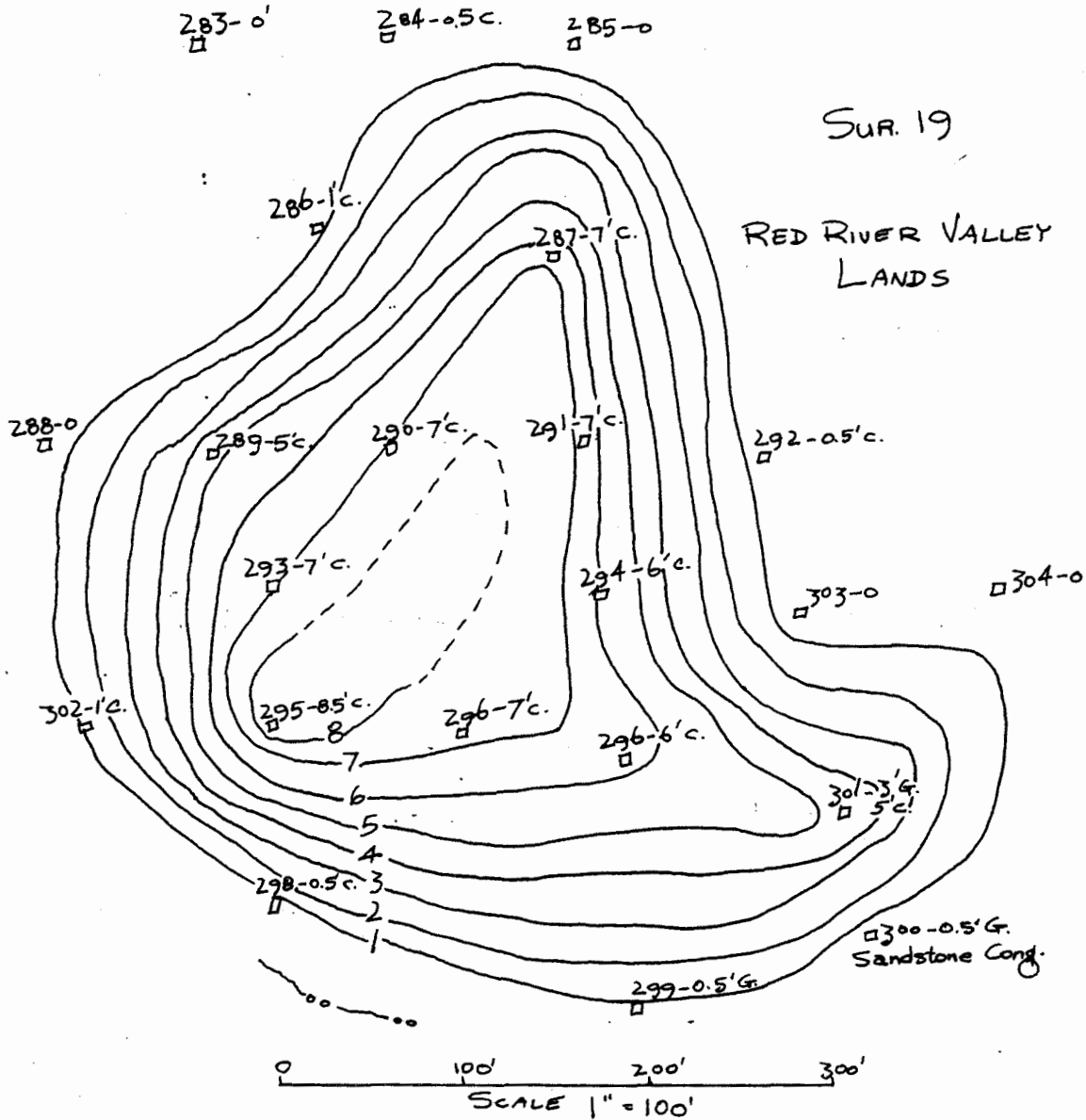
W. M. Goins

Location: 300' E of W.L. of 160-acre tract, Survey 56 Red River Valley lands, 2.5 miles west and 1 mile north of center Burkburnett, Texas.

Test # 305—dimensions 3' x 6' x 6'		Test # 308—dimensions 12" hole	
Gravel	0.0 2.0	Yellow shale	0.0 3.5
Fine grained red caliche sandstone	2.0 6.0	Test # 309—dimensions 12" hole	
Red shale gypsum crystals	6.0 6.5	Gravel	0.0 3.0
<i>Poor quality of material</i>		Yellow shale	3.0 3.5
Test # 306—dimensions 3' x 5' x 5'		<i>Contains 1000 cubic yards gravel, 2,000 cubic yards red caliche and sandstone</i>	
Gravel	0.0 4.0		
Fine gravel red caliche sandstone	4.0 6.0		
Test # 307—dimensions 3' x 4' x 4'			
Soil	0.0 0.5		
Mottled shale	0.5 4.0		

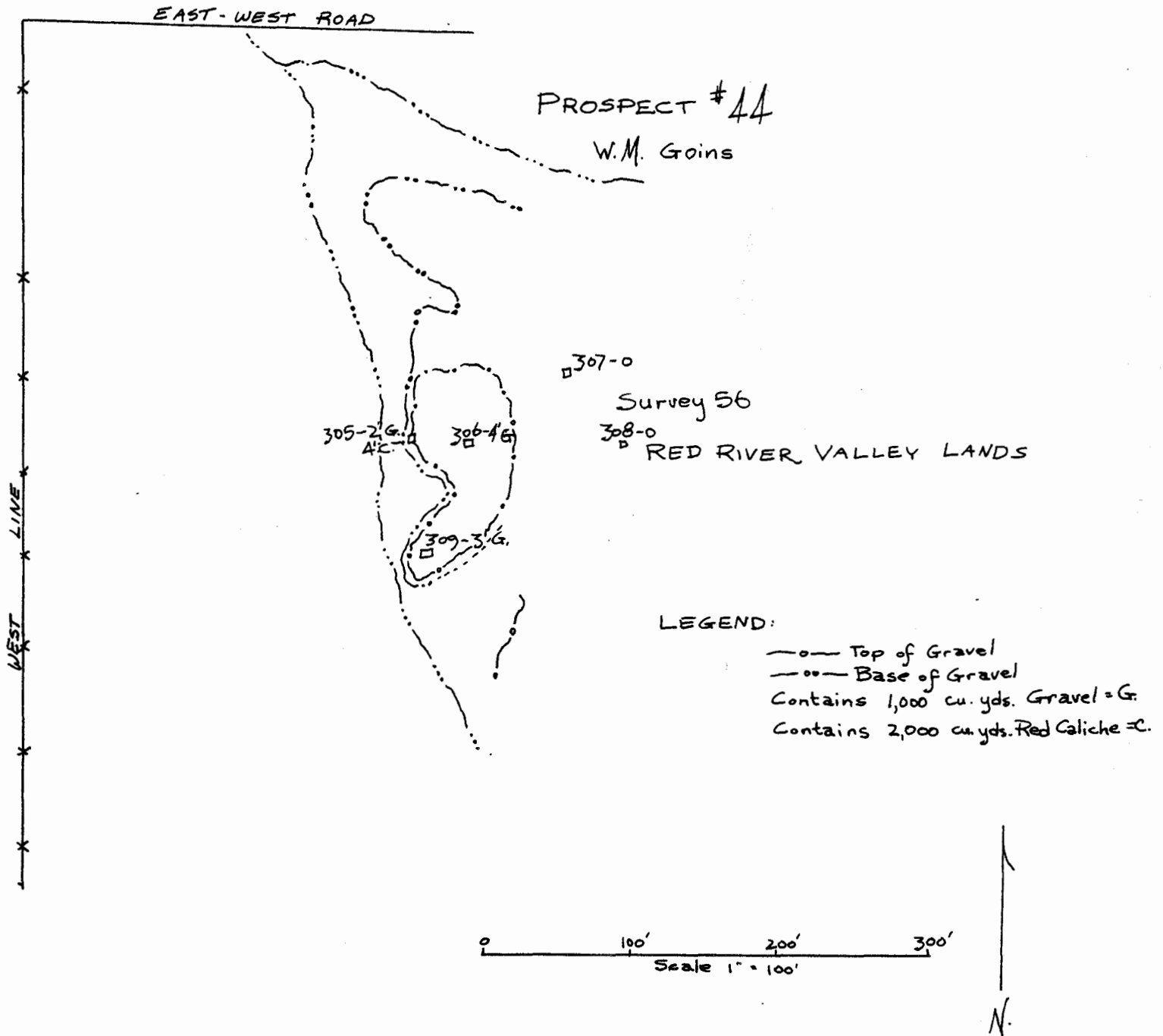
PROSPECT #43.

M.J. OWEN (BERTHA POWELL).



LEGEND:

- Base of Gravel Bed
- Contours shows thickness caliche sandstone
- Contours showing thickness Gravel
- Contour Int = 1'
- Contains 27,080 cu.yds. caliche sandstone = C. Bed.
- 1,100 cu.yds. Gravel = G. Bed.



Prospect No. 45

R. L. McDonald

Location: Northeast quarter section 56 Red River Valley lands, 2.5 miles west and 0.5 mile north Burkburnett, Texas.

	from (feet)	to		from (feet)	to
<i>Test # 310—dimensions 12" hole</i>			<i>Test # 316—dimensions 3' x 6' x 4'</i>		
Gravel	0.0	0.5	Buff shale	0.0	4.0
Buff shale	0.5	3.0	<i>Test # 317—dimensions 2' x 5' x 3'</i>		
<i>Test # 311—dimensions 3' x 4' x 4'</i>			Buff shale	0.0	3.0
Buff shale	0.0	4.0	<i>Test # 318—dimensions 3' x 4' x 3'</i>		
<i>Test # 312—dimensions 3' x 6' x 5'</i>			Buff shale	0.0	3.0
Soil	0.0	1.0	<i>Test # 319—dimensions 3' x 4' x 4'</i>		
Buff shale	1.0	5.0	Soil	0.0	1.0
<i>Test # 313—dimensions 3' x 4' x 4'</i>			Yellow clay	1.0	4.0
Buff shale	0.0	4.0	<i>Test # 320—dimensions 3' x 4' x 5'</i>		
<i>Test # 314—dimensions 3' x 5' x 5.2'</i>			Yellow shale	0.0	2.0
Soil and sand	0.0	3.0	Red sandstone <i>Too friable to use.</i>	2.0	4.0
Buff shale	3.0	5.0	Red shale	4.0	5.0
Red caliche sandstone	5.0	5.2	<i>Test # 321—dimensions 2' x 5' x 4'</i>		
<i>Test # 315—dimensions 3' x 6' x 4.5'</i>			Buff shale	0.0	2.0
Buff shale	0.0	4.5	Gray fine sandstone	2.0	4.0
			<i>Too friable to use. Caliche sandstone has over 5' overburden; cannot work.</i>		

Prospect No. 46

William Thom

Location: 500' E of W.L. and 800' N of S.L. of tract G.C. and S.F. R.R. Survey A-597, 5 miles west and 1 mile south of center of Burkburnett, Texas.

<i>Test # 322—dimensions 3' x 4' x 4'</i>			<i>Test # 324—dimensions 2' x 4' x 4'</i>		
Buff shale	0.0	0.5	Buff shale	0.0	4.0
Gravel	0.5	2.5	<i>Gravel not in paying quantity</i>		
<i>Test # 323—dimensions 2' x 5' x 4'</i>					
Variegated shale	0.0	0.4			

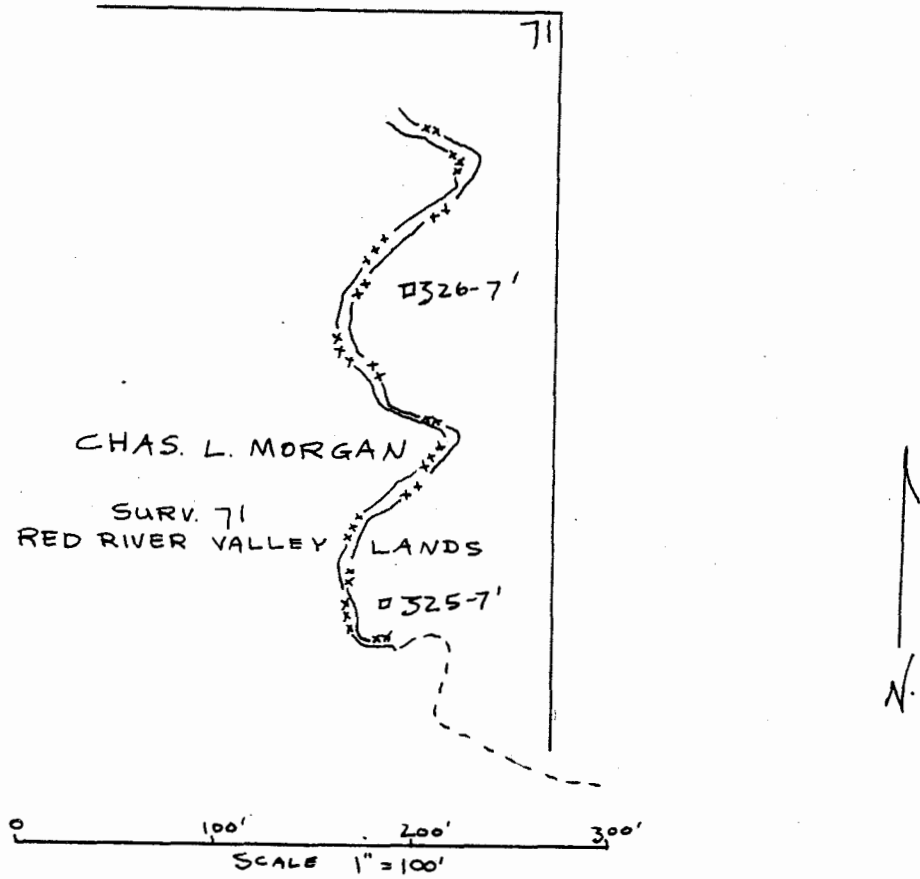
Prospect No. 47

Charles A. Morgan

Location: NE corner Survey 71, Red River Valley lands, 3.5 miles west and 1.5 miles north center Burkburnett, Texas.

<i>Test # 325—dimensions 2' x 4' x 8'</i>			<i>Test # 326—dimensions 3' x 4' x 7'</i>		
Soil	0.0	0.5	White caliche sandstone	0.0	7.0
White caliche sandstone	0.5	7.5	<i>Contains 10,000 cubic yards white caliche sandstone.</i>		

PROSPECT #47



LEGEND:

- x Top of white sandstone-gypsum outcrop
- xx Base of white sandstone-gypsum outcrop
thickness = 7 feet
Contains 10,000 cu. yds. white sandstone