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Arizona Department of Mines and Mineral Resources Mining Collection

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MCCARTHY CLAY

ALTERNATE NAMES:

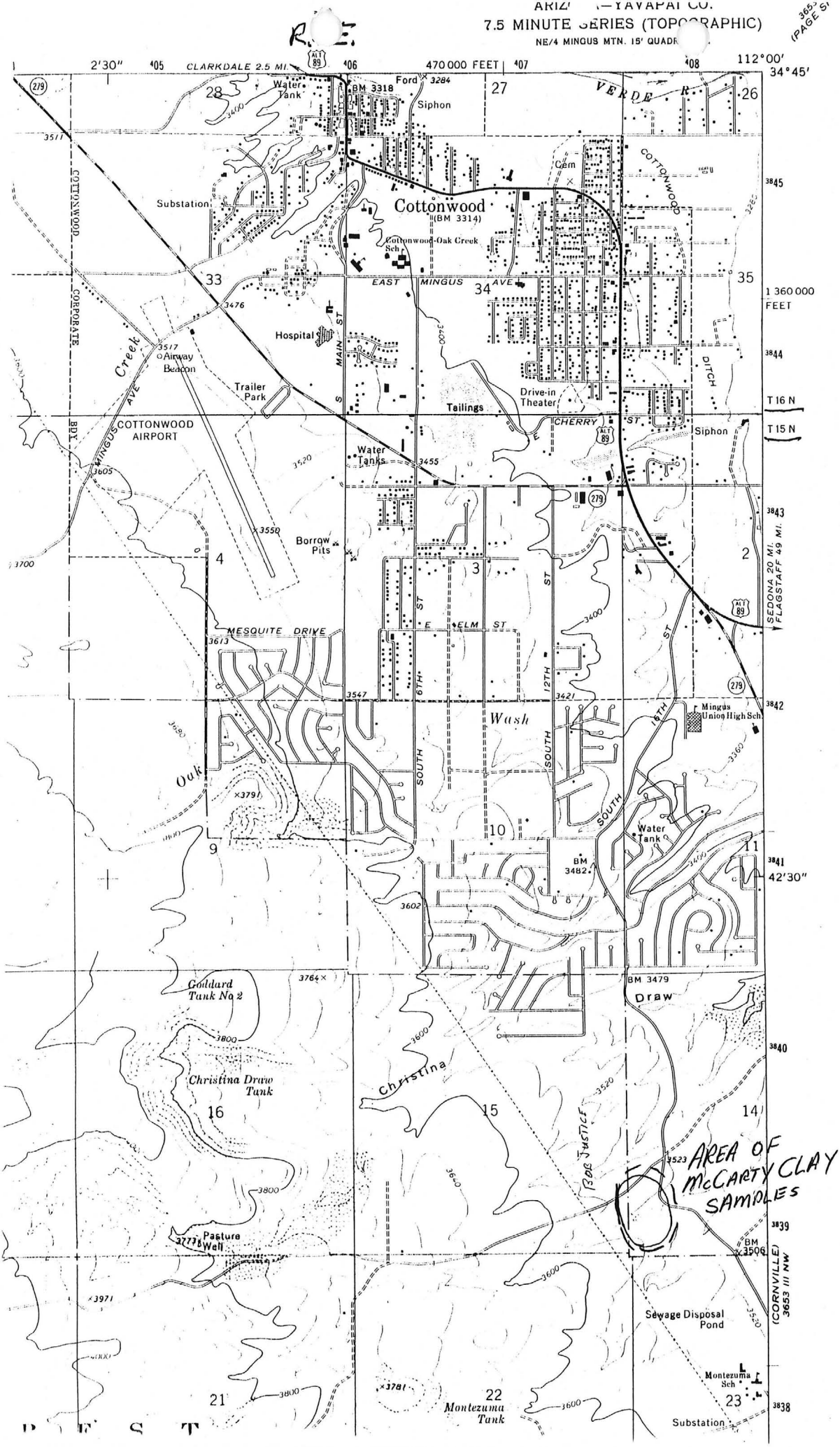
YAVAPAI COUNTY MILS NUMBER: 1313

LOCATION: TOWNSHIP 15 N RANGE 3 E SECTION 14 QUARTER SW
LATITUDE: N 34DEG 41MIN 25SEC LONGITUDE: W 112DEG 00MIN 27SEC
TOPO MAP NAME: COTTONWOOD - 7.5 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:
CLAY

BIBLIOGRAPHY:
USGS COTTONWOOD QUAD
USGS HICKEY MOUNTAIN QUAD
ADMMR MCCARTHY CLAY FILE
ALSO IN SEC. 15


ARIZ —YAVAPAI CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 MINGUS MTN. 15' QUADR
(PAGE S
2'30"
CLARKDALE 2.5 MI.
470 000 FEET
112°00'
34°45'
Water Tank
BM 3318
Ford
Siphon
VERDE R.
Substation
Cottonwood
(BM 3314)
Cem
COTTONWOOD
Cottonwood-Oak Creek Sch
EAST MINGUS AVE
Hospital
MAIN ST
Airway Beacon
Trailer Park
Tailings
Drive-in Theater
DITCH
T16N
T15N
COTTONWOOD AIRPORT
CORPORATE
Water Tanks
CHERRY ST
Siphon
Borrow Pits
SEDONA 20 MI.
FLAGSTAFF 49 MI.
MESQUITE DRIVE
E ELM ST
6TH ST
12TH ST
SOUTH
Wash
Oak
Mingus Union High Sch
16TH ST
Water Tank
BM 3482
BM 3479
Draw
Goddard Tank No 2
Christina Draw Tank
Christina
ISOM JUSTICE
AREA OF McCARTY CLAY SAMPLES
Pasture Well
Sewage Disposal Pond
Montezuma Sch
Montezuma Tank
Substation
(CORNVILLE) 3653 III NW
1 360 000 FEET
42'30"

OFFICE VISIT

MINE: McCarthy Clay (file)

COUNTY: Yavapai

INFORMATION FROM: Jim McCarthy

ENGINEER: Ken A. Phillips

DATE: February, 1983

Jim McCarthy, P O Box 385, Lake Montezuma, Arizona 86342 (card) brought in two samples of clay from beds in the SW¼, Sec 14, T15N R3E, about 4 miles south of Cottonwood, Yavpai County, Arizona. Two samples were split and sent to the U.S. Bureau of Mines, Tuscaloosa Research Center in February, 1983. Neither sample was suitable for structural clay products. Fired samples, the evaluation report and a map of the location are included in the McCarthy Clay Occurrence (file). Mr. McCarthy has not, to my knowledge, pursued the occurrences any further.

United States Department of the Interior

BUREAU OF MINES

P. O. BOX 25086
BUILDING 20, DENVER FEDERAL CENTER
DENVER, COLORADO 80225

Intermountain Field Operations Center

June 20, 1983

John Jett, Director
Arizona Dept. of Mineral Resources
Mineral Resources Bldg.
Fairgrounds
Phoenix, AZ 85007

Dear John:

Enclosed are data sheets (Tuscaloosa series AZ-6) on two clay samples submitted to the Tuscaloosa Research Center for analysis. The fired samples will be shipped to you from Tuscaloosa.

Sincerely,

Lorraine B. Burgin
State Liaison Officer

Enclosures

Tuscaloosa Research Center
Preliminary Ceramic Evaluation

Tuscaloosa Number AZ-6-1

Date received 02-28-83 Date reported 05-10-83

Sender's Name Arizona Department of Mineral Resources

Sender's Identification ADMR-1 Type Material Clay

Raw Properties:

Water of Plasticity, Percent 34.3 Working Properties Plastic

Color Tan Drying shrinkage, percent 7.5 Dry Strength Good

Slow firing test:

Temp. ° C	Munsell Color	Moh's Hardness	Percent Linear Shk	Percent Abs.	Percent Appr. Por.	Bulk density gm/cc
1,000	10 YR 9/1	3	10.0	30.2	45.7	1.51
1,050	10 YR 9/1	3	10.0	29.7	45.5	1.53
1,100	5 Y 9/1	3	10.0	28.8	44.8	1.56
1,150	2.5 Y 9/2	3	12.5	27.3	43.9	1.61
1,200	2.5 Y 8/4	4	17.5	15.3	31.0	2.02
1,250	2.5 Y 7/6	4	22.5	3.0	6.6	2.22

pH 8.4 HCL Effervescence High Other tests --

Preliminary Bloating Test: Negative

Temp. ° C	Percent absorption	Bulk Density gm/cc (lb/ft^3)	Remarks

Potential Use Not suitable for structural clay products. High effervescence; high shrinkage.

The data presented in this report are based on laboratory tests that are preliminary in nature and will not suffice for plant or process design. It does not preclude the use of the material in mixes.

Tuscaloosa Research Center
Preliminary Ceramic Evaluation

Tuscaloosa Number AZ-6-2

Date received 02-28-83 Date reported 05-10-83

Sender's Name Arizona Department of Mineral Resources

Sender's Identification ADMR-2 Type Material Clay

Raw Properties:

Water of Plasticity, Percent 39.8 Working Properties Plastic

Color Brown Drying shrinkage, percent 5.0 Dry Strength Good

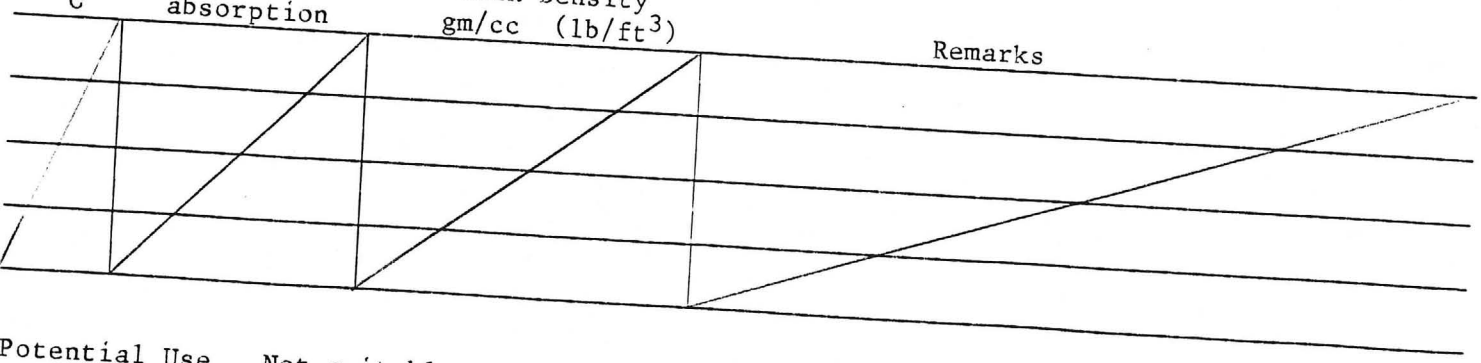
Slow firing test:

Temp. ° C	Munsell Color	Moh's Hardness	Percent Linear Shk	Percent Abs.	Percent Appr. Por.	Bulk density gm/cc
1,000	2.5 Y 7/6	3	7.5	30.3	45.5	1.49
1,050	2.5 Y 7/6	3	7.5	30.1	44.7	1.50
1,100	5 YR 7/6	3	10.0	28.0	43.4	1.55
1,150	5 YR 4/2	5	20.0	0.4	0.8	2.29
1,200	-	-	Melted	-	-	-
1,250	-	-	-	-	-	-

pH 8.5 HCL Effervescence High Other tests --

Preliminary Bloating Test: Negative

Temp. ° C	Percent absorption	Bulk Density gm/cc (lb/ft^3)	Remarks



Potential Use Not suitable for structural clay products. High effervescence; high shrinkage.

The data presented in this report are based on laboratory tests that are preliminary in nature and will not suffice for plant or process design. It does not preclude the use of the material in mixes.

Tuscaloosa No. AZ-6-1
Senders No. ADMR-1

21537

Tuscaloosa No. AZ-6-2
Senders No. ADMR-2

21537