Lab No. 705248-E

GEOLOGICAL SURVEY OF ALABAMA
GEOCHEMISTRY WATER LABORATORY

Kg TI

Project 87-6061

Well owner
Station name Q-01, E. Hayes

County Lowndes

DATA CARD[b]
Type 2 (1)

Station identification number (2–16)

Date of collection Yr. Mo. D (17–22)

Time of measurement (29–32)

Latitude
Longitude
T 13 R 13 Sec. 12
___ ¼ ___ ¼ SE ¼

b. Duplicate card columns 1-32 for each data card.

Collected by B. Gillett

Comment:

Appearance: (clear) turbid very turbid

Ground Water X

Sampling Point

Surface Water

Depth of Well 1513 ft.

Treatment: ✓ HNO_3 ✓ Raw
( ) H_2SO_4 ( ) Fil ( ) Iced

GEOLOGIC UNIT G (33) (34–41)

	Parameter code	Value	Exp.	Rmk
Specific Conductance umhos/cm 25°C	00095	1500	04	
Water Temperature °C	00010	23	02	
Depth (ft)	72008			
Instantaneous Flow (cfs)	00061			
Dissolved Oxygen (mg/l)	00300			
Color (Pt-Co units)	00080			
Turbidity (jtu)	00070			
Silica dissolved SiO_2 (mg/l)	00955	13	02	
Calcium dissolved Ca (mg/l)	00915	36	02	
Magnesium dissolved Mg (mg/l)	00925	13	01	
Sodium dissolved Na (mg/l)	00930	2910	03	
Potassium dissolved K (mg/l)	00935	25	01	
Dissolved solids (calc. solids sum) (mg/l)	70301	847	03	
Total suspended solids (mg/l)	70299			

	Parameter code	Value	Exp.	Rmk
pH Field ___ Lab ___	00400	77	01	
Bicarbonate HCO_3 (mg/l) ___ ml Acid	00440	80	02	
Carbonate CO_3 (mg/l) ___ ml Acid	00445	0	00	
Alkalinity as $CaCO_3$ (mg/l)	00410	66	02	
Acidity H (mg/l)	71825			
Sulfate dissolved SO_4 (mg/l)	00945	28	01	
Chloride dissolved Cl (mg/l)	00940	460	03	
Fluoride dissolved F (mg/l)	00950	12	00	
Nitrate - Nitrite dissolved $NO_3 + NO_2$ as N (mg/l)	71851	48	00	
Nitrite dissolved NO_2 as N (mg/l)	00618	0	00	
Nitrate dissolved NO_3 as N (mg/l)	00630	48	00	
Nitrate dissolved NO_3 (mg/l)	00613	21	01	

Date logged in
Date Begun 9/12/
Date finished
Analysts ~~N. Lloyd~~ Phillip Dark
Checker
Reviewer
Transmitted
Date
To Whom

	me/l		me/l
Ca	1.80	HCO_3	1.31
Mg	.11	CO_3	.00
Sr	.	SO_4	.06
TH	1.91	Cl	12.98
Na	12.62	F	.01
K	.06	NO_3	.03
H	.	OH	.
	.		.
	.		.
Sum	14.59	Sum	14.39
% error	0.6	Total of Sum	28.98

Lab No. 705248-F Date

	Parameter code	Value	Exp.	Rmk
Dissolved solids at 180°C (mg/l)	70300			
Carbon Dioxide CO_2 (mg/l)	00405			
Ammonia dissolved NH_3 as N (mg/l)	00610	61	00	
Total Kjeldahl Nitrogen dissolved TKN as N (mg/l)	00625	102	01	
Total Phosphate dissolved as P (mg/l)	00665	0	00	4
Ortho Phosphate dissolved as P (mg/l)	00671	0	00	4
Hardness as $CaCO_3$ (mg/l)	00900	96	02	
Noncarbonate Hardness (mg/l)	00902			

	Parameter code	Value	Exp.	Rmk
Aluminum dissolved Al (ug/l)	01106			
Arsenic dissolved As (ug/l)	01000	0	00	4
Barium dissolved Ba (ug/l)	01005	110	03	
Beryllium dissolved Be (ug/l)	01010			
Cadmium dissolved Cd (ug/l)	01025	0	00	4
Chromium dissolved Cr (ug/l)	01030	1	01	
Cobalt dissolved Co (ug/l)	01035	1	01	
Copper dissolved Cu (ug/l)	01040			
Iron dissolved Fe (ug/l)	01046	380	03	
Iron Total Fe (ug/l)	01045			
Lead dissolved Pb (ug/l)	01049	14	02	
Lithium dissolved Li (ug/l)	01130			
Manganese dissolved Mn (ug/l)	01056	30	02	
Mercury dissolved Hg (ug/l)	71890	0	00	4
Nickel dissolved Ni (ug/l)	01065			
Selenium dissolved Se (ug/l)	01145	10	02	
Strontium dissolved Sr (ug/l)	01080	1100	04	
Vanadium dissolved V (ug/l)	01085			
Zinc dissolved Zn (ug/l)	01090	250	03	
Silver Dissolved Ag (ug/l)		5	00	1

9-185
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

Date 5-17-, 19 55 Field No. O-1

Record by JCS. Office No.

Source of data Small

1. *Location:* State Ala. County Lowndes

Map Co. Road map.

NW ¼ NE ¼ sec. 19 T 13 (N) S R 13 (E) W

2. *Owner:* Small-Ryals Address

Tenant Address

Driller Ryals Bros. Co. Address

3. *Topography* Floodplain

4. *Elevation* ft. above below

5. *Type:* Dug, drilled, driven, bored, jetted 19 55

6. *Depth:* Rept. 550 ft. Meas. ft.

7. *Casing:* Diam. 4 in., to in., Type

Depth ft., Finish test well

8. *Chief Aquifer* None From ft. to ft.

Others

9. *Water level* — ft. rept. meas. — 19 above below

which is ft. above below surface

10. *Pump:* Type None Capacity G. M.

Power: Kind do Horsepower

11. *Yield:* Flow G. M., Pump G. M., Meas., Rept. Est.

Drawdown ft. after hours pumping G. M.

12. *Use:* Dom., Stock, PS., RR., Ind., Irr., Obs. Test well

Adequacy, permanence No aquifer found.

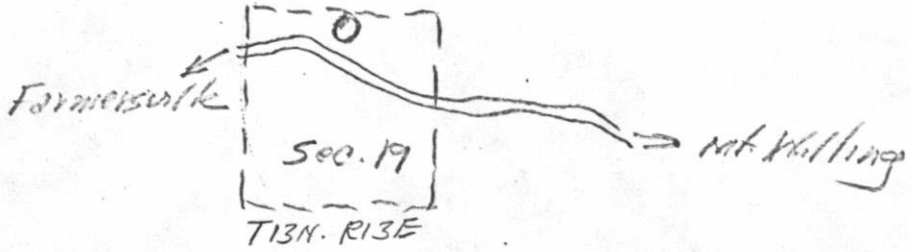
13. *Quality* — Temp °F.

Taste, odor, color — Sample Yes No

Unfit for

14. *Remarks:* (Log, Analyses, etc.) Probably drilled to top of Moreville Fm.

U. S. GOVERNMENT PRINTING OFFICE 16—62891-1


Farmersville
Sec. 19
Mt. Killing
T13N. R13E

Q Q-01 2

REPORT OF DRILLED WELL

W.J. BREMAN & SON 122 RT 1 SARDIS, ALA 36775 12-24-74
DRILLING CONTRACTOR | License Number | Address | Zip Code | Date

E. HAYES RT 1 BOX 117D HAYNEVILLE, ALA
PROPERTY OWNER | Address (mailing) | Zip Code

LOWNDES S12- SE¼- T13N - R13E
WELL LOCATION | County | Section | ¼ Section | Township | Range ---or:

Distance and direction from nearest town, community, road junction or other reference point

5-8-87 field 250 wet 45.5

WELL WILL BE USED FOR: [X] Private supply [ ] Public supply [ ] Industrial supply [ ] Test well [ ] Irrigation Other:

Q-01

12-24-74 Estimated starting date

Drilling method: (check) Cable tool [ ] Rotary [X] Jetted [ ] Bored Other:

4" Diameter of well

1400' Estimated depth

ele 340'

23°C serves 5 families

Walter J. Breman Jr.
SIGNATURE of Drilling Contractor

Total Depth

Completion Date 1-30-75

Interval	Description of cuttings	Interval	Description of cuttings
0-20'	BROWN CLAY		
20-905	MARL		
905-1255	SAND MARL & ROCK		
1255-1373	- RED, WHITE CLAY & SAND		
1373-1513'	- CLAY & SAND		

GEOLOGICAL SURVEY STATE OF ALA OIL AND GAS BOARD AUG 6 8 59 AM '75 RECEIVED

Completion date: report depths below ground level

Pump
Type: [ ] Turb. [X] Subm. [ ] Jet [ ] Cyl.; Other:
Intake depth 315 H.P. 1½ Yield 16 gpm

Capacity
Tested by: [X] pumping [ ] air lift [ ] bailer [ ] none
Measured Static Water Level 201 ft.
Measured pumping level 253 ft. after 8 hrs. pumping 16 gpm
Development time prior to testing 20 hrs.

Finish
[ ] Open hole [X] Screened [ ] Slotted pipe [ ] Gravel pk.
Interval(s) screened: 1402 to 1412 ft; 1426 to 1431 ; to ft.
Packer(s) set at and ft.
Screen: diam. 2½ I.D ; Size openings .15

Casing

Interval cased	Diam. (Inches)	*Type pipe	*Type couplings	Interval grouted
0-1375	4"	BLACK	T&C	

*Couplings: Threaded & Coupled (T&C) Welded (W) Threaded & coupled & welded (TC&W)
Other:
*Pipe: Black; PVC; Galv.; Other:

Quality
Water analysis obtained? (check) [ ] No [ ] Bacteriological [ ] Chemical
Analysis by: [ ] Ala Geol. Surv. [ ] U.S. Geol. Surv. [ ] Ala Health Dept. [ ] Private lab.
Signed: Walter J. Breman Jr.

*For deeper well please attach continuation sheet.

1@ .66

Q-01

W. J. Bozeman and Son
Freewell #1
January 13, 1975

1-895 +6' start of hole marl +10' rock hard +11' grey sand +13' rock hard +14' grey sand and marl +18' rock hard with some soft spots +22' sand and marl.

2-20' 915' - sand and marl +7' rock hard +10' sand and marl +21 rock +21½ sand and marl.

3-20-935 Sand and marl +14½ rock hard +15 sand and marl.

4-20-955' Sand and marl.

5-20 - 975' Sand and marl.

6-20 - 995' Sand and 5' rock +7' sand and marl.

7-20 1015' - sand and marl.

8-20 1035' - sand and marl +18' rock +19' sand and marl.

10-20 1075' - Grey sand and marl.

11-20 1095' - Grey sand and marl.

12-20 1115' Sand +6' rock +7½' grey sand and marl

12-20 1135' - sand and marl.

13-20

14-20 1155' - sand and marl.

15-20 1175' - sand and marl.

16-20 1195' - sand and marl.

17-20 1215' - sand and marl.

18-20 1235' - sand and marl +13' rock +15' sand and marl + white grey clay.

410' Small drill pipe.

104 2" drill pipe.

482 - 2½" drill pipe

360' - 2" Heavy drilling 6-18' length.

19' End of casing.

top Kg 915

18' - 20' 1356' - +19' end of casing
hard red and brown clay.

20'-20' 1396' - loose yellow brown sand and small clay streak +6' loose coarse, pinkish white sand +16'. Tighter pinkish sand.

21-20' 1416' - Pinkish sand and 8' loose whitish pink sand coarse +16' tighter sand with clay streaks +22' loose. screen

22-20' 1436' - Loose coarse darker white sand +8' hard clay +13' dark brown fine sand with spots +16' hard clay blue.

23-20' 1456' - blue clay +6' fine brown sand +16' loose coarse brown sand +22' hard spot.

24-20' 1496' - coarse pink brown sand +5 fine dirty loose brown sand and 17' hard blue clay.

19-20' 1255' - tight white and blue clay +16' looser white clay and red stks.

20-20' - 1275' - white clay and red clay

Kg

21-20' 1295' - clay +6' white sand coarse +14' tight red and white clay.

22-20' 1315' - clay +13' clean coarse loose white sand.

23-20' 1335' - sand +7' tight multy colored clay.

24-20' - 1355' - tight clay +10' loose coarse light brown sand with tight spots +18' hard red clay +20' end of 5-5/8" hole.

Q-01

Widco* WELL LOG (79)

WELL Freewell #1

LOCATION SE¼, SEC. 12, T. 13N, R. 13E

COMPANY W. J. Bozeman and Son

AREA Gordonsville

WELL Freewell #1

COUNTY Lowndes STATE Alabama

COORDINATES:

N

S

ELEVATION: est elev ~~300~~ 340 *

D.F.

K.B.

G.L.

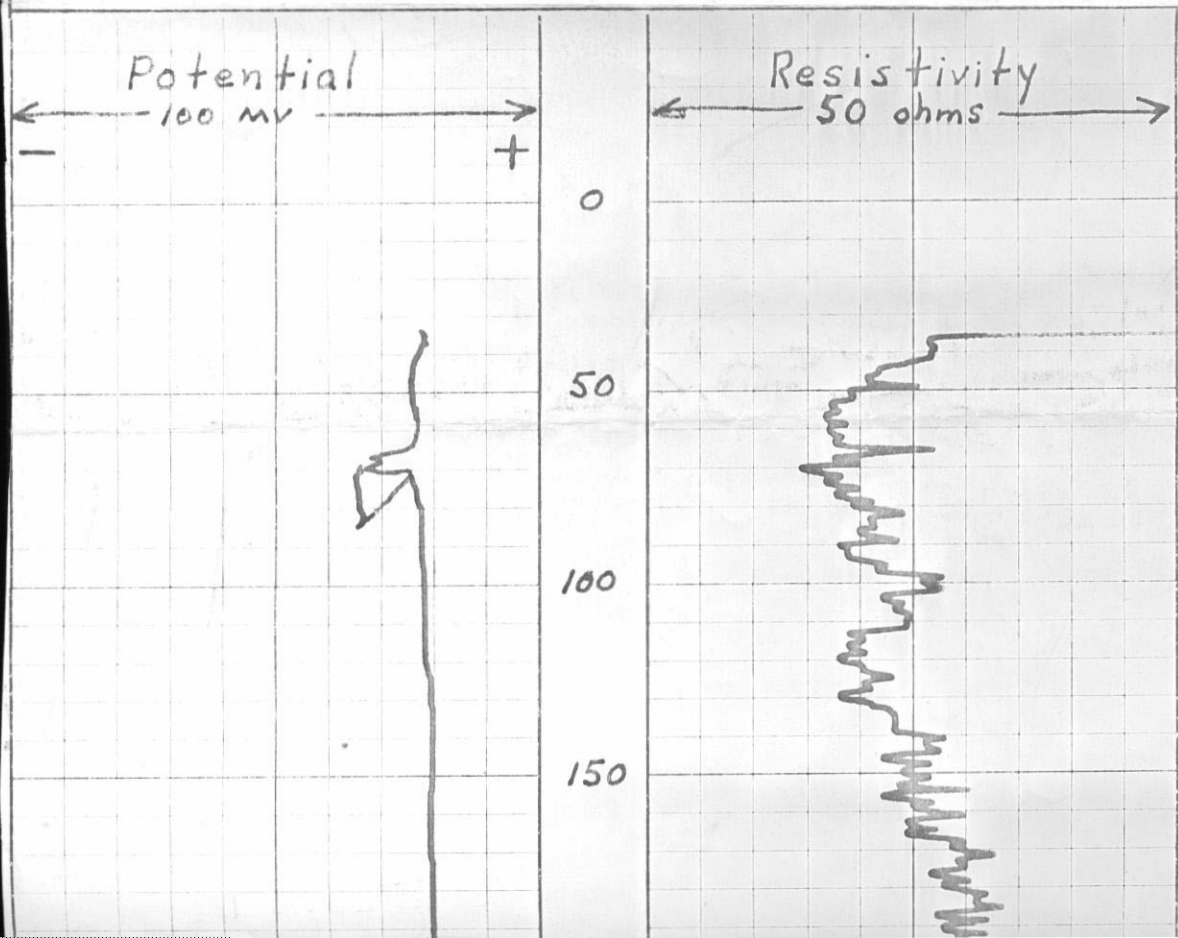
	Run No. 1	Run No. 2	MUD	Run No. 1	Run No. 2
Date 1-13-75	PR		Nature		
First Reading	40'		Density		
Last Reading	1350'		Viscosity	@ °F	@
Footage Logged	1310'		Resistivity	@ °F	@
Bottom (Driller)	1375'		Res. @ BHT	@ °F	@
Casing (From Log)	-		pH		
Casing (Driller)	-		Circ. Temp.		
Casing Size	-		B.H. Temp.		
Bit Size:	5-7/8"				
Bit Size:					
			Logged by	Gene A. Clements	
			Witnessed by	Joe C. Beasley-Jimmy Bozeman	

REMARKS

Information obtained by Ellard from Bozeman 4/4/75

STATIC WL. 200 below lsd
pumping level 250' @ 16 gpm
2 HP pump.

* FROM MONTGOMERY AMS MAP

base of 4½-in @ 1375'
2½-in 27' spacer
2½-in 10' .015 sl
2½-in 14' spacer
2½-in 5' .015 sl

* Reg. U.S. Pat