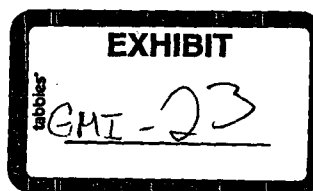


S.M. Stoller Corporation
LITHOLOGY LOG

Hole No. PB-35 Section NW NW 8 T 11S R 31E
 Project Gandy Marley Elevation 4124
 Driller Larry JAB Date _____
 Comments _____

GSA Color	Lith	Description
		tan surface ss
		pale red-brown siltstone + gravel
		pale red-brown siltstone
10R 4/2	50'	gray-red siltstone
10R 4/6		mod red-brown mudstone
		lt gray siltstone + tan ss
	100'	
		dk gray mudstone
10R 4/6		mod red-brown mudstone
10R 4/2	150'	gray-red mudstone
10R 5/4		pale red-brown mudstone
10R 4/2	200'	gray-red mudstone



LITHOLOGY LOG

Comments _____

GSA Color	Lith	Description
		yellow-brown - tan calcareous ss
		lt brown calcareous
	50'	lt brown fm ss w/ gravel
	75'	
10R 4/2		gray-red mudstone
10R 5/4	100'	pale red-brown mudstone
10R 4/6		mod. red-brown mudstone
	150'	
10R 4/2		gray-red mudstone
		lt gray mudstone
		lt gray siltstone
	200'	lt gray mudstone

LITHOLOGY LOG

Hole No. PB-33 Section SWSE 18 T 11 S R 31 E
Project Gandy Marley Elevation 4134
Driller Larry JAB Date 07/17/94
Comments _____

GSA Color	Lith	Description
		surface ss
10R 4/6		mod red-brn mudstone
10R 4/2	50'	gray-red siltstone with clay @ 40'
10R 4/6		mod red-brn mudstone
		lt gray mudstone
10R 5/4		pale red-brn mudstone
10R 4/2	100'	gray-red mudstone

LITHOLOGY LOG

Comments _____

GSA Color	Lith	Description
		surface ss.
		pale red-brown silt & gravel
		dk gray siltstone
		lt gray siltstone
10R 3/4	50'	dk red-brown mudstone
10R 5/4		pale red-brown mudstone
10R 4/2	100'	gray red mudstone

LITHOLOGY LOG

Comments 4' lower than crit pt.

GSA Color	Lith	Description
		surface ss
10R 5/4		pale red-brn siltstone
10R 4/2	50'	lt gray-red siltstone
10R 4/6		med red-brn mudstone
10R 3/4		dk med-brn mudstone
10R 4/6	100'	med red-brn mudstone

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LITHOLOGY LOG

Hole No. PB-29 Section SWNE 18 T 11S R 31E

Project Gandy Morley Elevation 4129

Driller Larry DA3 Date 07/17/94

Comments 's' lower than grid pt.

GSA Color	Lith	Description
		surface ss & gravel
10 R 4/6		med red-brn mudstone
10 R 4/2	50'	gray-wht siltstone w/ lt gray br ss @ bottom
10 R 4/6		med red-brn mudstone
10 R 4/2		gray-wht mudstone
	100'	dk red-brn mudstone

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LITHOLOGY LOG

Hole No. PB-28 Section SW SW 17 T 11S R 31E
 Project Gandy Morley Elevation 4159
 Driller Larry JAB Date 07/16/94
 Comments 4' lower than grid pt.

GSA Color	Lith	Description
		surface ss & gravel
		dk gray mudstone
10R4/C		med red-bn mudstone
10R5/4	50'	pale red-bn siltstone
10R5/4		pale red-bn siltstone
		med red-bn mudstone & ss
10R4/C	100'	med red-bn mudstone
		gray-red siltstone

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LITHOLOGY LOG

Hole No. PB-27 Section NW NE 9 T 11S R 31EProject Gandy Marley Elevation 4144Driller Larry JAB Date 07/16/94

Comments _____

GSA Color	Lith	Description
		surface ss + gravel
		1 ft yell-bn ss
10R 4/2		gray-red mudstone
10R 4/2	50'	gray-red siltstone
10R 5/4		pale red-bn mudstone
10R 4/2		gray-red siltstone & bn ss
	100'	1 ft gray siltstone
10R 4/2		gray-red siltstone
10R 4/6		med red-bn mudstone
10R 5/4	150'	pale red-bn siltstone
10R 4/2		gray-red siltstone
	200'	1 ft gray silt to bn ss

S.M. Stoller Corporation
LITHOLOGY LOG

Hole No. PB-26 Section NW NW 9 T 11 S R 31 E
 Project Gandy Marley Elevation 4183
 Driller Larry JAB Date 02/16/94
 Comments _____

GSA Color	Lith	Description
		surface ss & gravel
10 R 4/2		gray-red siltstone
5 Y 6/4	50'	dusky yellow fm ss
5 Y 12 6/1		lt brn gray siltstone
		dk brn-gray fm ss
	100'	
10 R 4/2		gray-red fm ss
10 R 4/2		lt gray-red fm ss
10 R 4/6		med red-brn fm ss
10 R 5/4	150'	pale red-brn fm ss
10 R 4/6		med red-brn siltstone fm ss
5 Y 12 6/1		lt brn-gray
10 R 4/2		gray-red fm ss
10 R 4/6	200'	med red-brn mudstone

LITHOLOGY LOG

Comments _____

GSA Color	Lith	Description
		surface is gravel
10R 5/4		pale red-bn mudstone
10R 4/6		med red-bn mudstone
10R 4/2		gray-med siltstone
10R 4/2	30'	med red-bn mudstone to gray-med siltstone
10R 4/6		med red-bn mudstone
10R 5/4		pale red-bn to gray-med
10R 4/2	100'	siltstone

LITHOLOGY LOG

Comments _____

GSA Color	Lith	Description
		surface ss + gravel
10R 4/6		med red-brown mudstone
	50'	gray-red siltstone
		med red-brown mudstone
	100'	gray-red siltstone

LITHOLOGY LOG

Hole No. PB-23 Section NW SW 17 T 11S R 31E
Project Gandy Marley Elevation 4151
Driller Larry JAB Date 07/16/94
Comments _____

GSA Color	Lith	Description
		suckers & lt tan ss
10R 4/2		gray-red siltstone
10R 4/6		med red-brn to gray-red mudstone
10R 4/2		
10R 4/6	50'	gray-red siltstone
10R 4/6		med red-brn mudstone
10R 5/4		pale red-brn siltstone
		gray-red siltstone
	100'	dk red-brn to lt gray mudstone
		gray-red siltstone

LITHOLOGY LOG

Hole No. PB-22 Section NW SW 17 T 11 S R 31 E
Project Gandy Marley Elevation 4143
Driller Larry DAB Date 07/15/94
Comments _____

GSA Color	Lith	Description
		surface ss + gravel
10R 4/6		med red-bn mudstone
10R 9/2		gray-red siltstone
10R 5/4		pale red-bn siltstone
10R 4/6	50'	med red-bn mudstone
		gray-red siltstone
10R 4/2		
	100'	lt gray siltstone

LITHOLOGY LOG

Hole No. PB-20 Section NW SW 17 T 11 S R 31 E
Project Gandy Marley Elevation 4157
Driller Larry JAB Date 07/15/94
Comments _____

GSA Color	Lith	Description
		surface ss & gravel
		lt gray-tan siltstone & ss
		dk gray mudstone
10R 4/6		mod red-brn mudstone w/ silt @ bottom
10R 5/4		pale red-brn siltstone
10R 4/6		med red-brn mudstone
10R 4/2		gray-red siltstone

LITHOLOGY LOG

GSA Color	Lith	Description
		siltstone ss + gravel
10R 5/4		30' pale red-brown mudstone
10R 4 1/2		gray-red siltstone
		100'

LITHOLOGY LOG

GSA Color	Lith	Description
		tan surface ss + gravel
		tan siltstone + ss w/ gravel
10R 4/6		mod red-brn mudstone
10R 5/4	30'	pale red-brn siltstone
10R 4/6		mod red-brn mudstone
10R 4/2		gray-red siltstone
10R 5/4	100'	pale red-brn mudstone

LITHOLOGY LOG

Hole No. PB-17 Section SE SE 18 T 11S R 31E
Project Gandy Markey Elevation 4141
Driller Larry JAB Date 07/14/94
Comments _____

GSA Color	Lith	Description
		surface ss + gravel
10R 4 1/2		gray-red siltstone
10R 4 1/6		mod red-brn mudstone
10R 4 1/2	50'	gray-red siltstone
10R 4 1/6		mod red-brn mudstone
10R 5 1/4	100'	pale red-brn mudstone

LITHOLOGY LOG

GSA Color	Lith	Description
		surface ss + gravel
10R 5/4		pale red-brown siltstone
10R 4 1/2	50'	gray-red siltstone
10R 4/6		med red-brown mudstone
10R 4 1/2	100'	gray-red siltstone lt gray mudstone

LITHOLOGY LOG

GSA Color	Lith	Description
10R 4/6		red-brn silty soil mod red-brn mudstone
5YR 4/1	50'	brn gray siltstone
10R 5/4		pale red-brn mudstone
10R 4/6	100'	mod red-brn mudstone

LITHOLOGY LOG

GSA Color	Lith	Description
10R 4/6		surface ss & gravel
		med red-bn mudstone
10R 4/2		gray-red siltstone
	50	
		dk gray mudstone
10R 4/6		med red-bn mudstone

LITHOLOGY LOG

GSA Color	Lith	Description
		surface ss + gravel
10R 4/2		gray-red siltstone
5YR 6/1	30'	lt gray-brown siltstone and very fine gr. ss
10R 4/2		gray-red siltstone
10R 4/6	100'	med red-brown mudstone

LITHOLOGY LOG

Hole No. PB-13 Section SW SE 18 T 11S R 31E
Project Gandy Marley Elevation 4119
Driller Larry JAIS Date 07/14/94
Comments _____

GSA Color	Lith	Description
		surface ss
10R 4/2		gray-red siltstone
5YR 4/1	50'	lt gray-brown siltstone
10R 5/4		pale red-brown mudstone
10R 4/6	100'	med red-brown mudstone

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LITHOLOGY LOG

Hole No. PB-12 Section NE SE 18 T 11S R 31E
 Project Gandy Marley Elevation 4132
 Driller Larry JAS Date 07/14/94
 Comments _____

GSA Color	Lith	Description
		surface ss & gravel
10R 5/4		pale red-brown siltstone
	50'	
10R 4/2		gray-red siltstone
5TR 4/1		1/4 gray-brown siltstone
10R 4/2		gray-red siltstone
10R 4/6		mod red-brown mudstone
10R 4/2		gray-red siltstone
10R 4/6		mod red-brown mudstone
	100'	

S.M. Stoller Corporation

LITHOLOGY LOG

Hole No. PB-11 Section SW NE 18 T 11S R 31E
Project Gandy Morley Elevation 4119
Driller Larry JAB Date 07/13/94
Comments 5' lower than grid point

GSA Color	Lith	Description
10R 4/6		sandy ss w/ caliche
		mod red-brn mudstone
10R 4/2		gray-red siltstone
5YR 6/1		lt gray-brn siltstone
10R 4/6	50'	mod red-brn mudstone
10R 5/4		pale red-brn mudstone
10R 4/6		mod red-brn mudstone
10R 5/4		pale red-brn mudstone
10R 4/2	100'	gray-red mudstone

LITHOLOGY LOG

Hole No. P13-10 Section NW SE 18 T 11S R 31E
Project Gandy Marker Elevation 4131
Driller Larry JAB Date 07/13/94
Comments _____

GSA Color	Lith	Description
		sandy soil
10R 4/6		med red-brn mudstone
10R 4/2		gray-red siltstone
10R 4/2	50'	gray-red mudstone
5YR 6/1		lt brn-gray siltstone
10R 4/6		med red-brn mudstone
10R 4/2		gray-red mudstone

LITHOLOGY LOG

GSA Color	Lith	Description
10R 4/2		surface ss + gravel
10R 4/6		gray-red siltstone
		mod red-bn mudstone + silty clay
10R 4/2	50'	
NT		gray-red siltstone
10R 3/4		lt gray mudstone
10R 4/6	100'	dk red-bn mudstone
		mod red-bn mudstone

LITHOLOGY LOG

GSA Color	Lith	Description
		surface ss + gravel
10 R 4/2		gray-red siltstone
5 YR 6/1	30'	lt gray-brn siltstone
10 R 4/6		mod red-brn mudstone
10 R 4/2	100'	gray-red mudstone

LITHOLOGY LOG

GSA Color	Lith	Description
	0 3'	ln tan surface ss + gravel
10 R 4/2		gray-red siltstone
5 YR 6/1		lt gray-bn siltstone
10 R 4/6	50'	med. red-bn mudstone
10 R 6/2		pale red-bn mudstone
10 R 4/6		med. red-bn mudstone
10 R 4/2	100'	gray-red mudstone

LITHOLOGY LOG

GSA Color	Lith	Description
10R 6/6		mod red-org surface ss
10R 4/6		mod red-brn mudstone
10R 6/2		pale red siltstone
	50'	
10R 4/6		mod red-brn mudstone
10R 3/4		dk red-brn mudstone
	100'	

LITHOLOGY LOG

Hole No. PB-5 Section NE SE 18 T 11S R 31E
Project Gandy Marley Elevation 4142
Driller Larry JATB Date 07/12/94
Comments _____

GSA Color	Lith	Description
10 R 5/4		lt gray to pale red-brown silt w/ gravel @ 25'
10 R 5/4		pale red-brown mudstone
10 R 4/6	50'	med red-brown mudstone
10 R 4/2		gray-red siltstone
10 R 4/6		med red-brown mudstone
10 R 5/4	100'	pale red-brown mudstone

LITHOLOGY LOG

Hole No. P13-4 Section NE SE 18 T 11 S R 31 E
Project Gandy Marley Elevation 4139
Driller Larry JAB Date 07/12/94
Comments _____

GSA Color	Lith	Description
10R 6/6		med red-arg surface ss
10R 6/2		red-Sn silty ss
10R 5/4		
10R 4/2	50'	pale red-Sn mudstone
10R 4/2		gray-red silty mudstone
10R 4/6		med red-Sn mudstone
10R 4/2		gray-red silty mudstone
10R 4/6		mod red-Sn mudstone
10R 4/2		gray-red mudstone
10R 4/6	100'	mod red-Sn mudstone

LITHOLOGY LOG

GSA Color	Lith	Description
10R 5/4		lt-ben soil & fm ss
10R 5/4		pale red-ben mudstone
5R 5/4		med red siltstone
10R 4/6	50'	med red-ben mudstone
10R 5/4		
10R 5/4		pale red-ben siltstone
10R 5/4		pale red-ben mudstone
10R 4/6	100'	pale red-ben siltstone
		med red-ben mudstone

LITHOLOGY LOG

Comments

GSA Color	Lith	Description
10R 5/4		red-brn soil
10R 2/4		pale red-brn siltstone
10R 4/6		dk red-brn mudstone
		med red-brn mudstone
10R 4/2	50'	gray-red siltstone
10YR 5/4		med yell-brn mudstone
10R 3/4		dk red-brn siltstone
10R 2/4	100'	dk red-brn clayey siltstone

LITHOLOGY LOG

Hole No. PB-1 Section NW NE 8 T 11 S R 31 E
Project Gandy Marley Elevation 4152
Driller Larry JAB Date 07/11/94
Comments _____

GSA Color	Lith	Description
5R4/6		fm gr. red-brn ss
5YR4/1		brn-gray siltstone
5Y6/1		fm gr. lt. olive gray ss
10R5/4		pale red-brn mudstone
10R4/2		grayish red mudstone
10R4/6		mod red-brn mudstone
10R3/4		dk red-brn mudstone
10R4/6		med red-brn mudstone
10R3/4		dk red-brn mudstone
5Y6/1		grn-gray siltstone damp @ 158'
10R4/6		med red-brn mudstone
10R3/4		dk red-brn mudstone