

GRAVEL EXPLORATION

DRILLER

BILLY LUTES

DRILL METHOD

SOAIC

Est. Wt. Level (ft.)

15

LATITUDE

30.1

LONGITUDE

ELEVATION

HOLE ID

MACK 5

PROJECT

(pg. 1 of 1)

DATE

TOTAL HOLE

OB

Avg.
FMSand
Thick.

BY

Samp.
Thick.Avg. %
>1/4"TPA*
>1/4"MR
1/4"

6

63

52

21%

23,397

5.8

TOTAL DEPTH: 76

PRODUCTION CUTOFF

-

-

-

63

52

21%

23,397

5.8

*CYAC to TPA conv (Lab Wet test): 1.35

OVERBURDEN

Thick, ft.

Tested Wt.
(lbs.)

#8

1/4"

3/8"

1/2"

1"

1-1/2"

Depth, ft.

5

OB

SAND, FINE GRAINED

10

SAND, W/TRACE TO LEAN GRAVEL

15

SAND, W/TRACE TO LEAN GRAVEL

20

SAND & GRAVEL

25

SAND & GRAVEL, CLAYEY, TRACE OF CLAY @ 28'

30

SAND, W/TRACE TO LEAN GRAVEL

35

SAND & GRAVEL

40

SAND & GRAVEL

45

SAND & GRAVEL

50

SAND & GRAVEL

55

SAND & GRAVEL

60

SAND & GRAVEL

65

CLAY

70

75

80

5

10

15

20

25

30

35

40

45

50

55

60

65

70

75

80

5

10.9

15%

13%

11%

2%

0%

5

10.9

10%

9%

7%

1%

0%

5

11.1

21%

17%

15%

1%

0%

5

10.9

20%

18%

15%

2%

0%

5

10.8

5%

4%

3%

1%

0%

5

11.1

23%

20%

16%

9%

0%

5

11.0

36%

28%

20%

2%

0%

5

11.0

20%

13%

8%

0%

0%

5

11.1

33%

23%

15%

3%

0%

4

11.4

23%

20%

19%

5%

0%

3

11.2

25%

20%

16%

5%

0%

GRAVEL EXPLORATION

DRILLER	Billy AOTES	LATITUDE	30.886593	HOLE ID	MAC65	(pg. 1 of 2)
DRILL METHOD	SONIC	LONGITUDE	-93.438647	PROJECT		
Est. Wt. Level (ft.)	15'	ELEVATION		DATE		

[illegible]

GRAVEL EXPLORATION

DRILLER
DRILL METHOD
Est. Wt. Level (ft.)

Billy Lutes
SONIC
12

7. LATITUDE 30.8971
LONGITUDE 90.4020
ELEVATION

HOLE ID MAKED
PROJECT
DATE

(pg. 1 of 1)

[illegible]

GRAVEL EXPLORATION

BORING ID *MACK6* (pg. 2 of 2)
PROJECT

Thick, ft.	Tested Wt. (lbs.)	#8	> 1/4"	> 3/8"	> 1/2"	> 1"	> 1-1/2"	Depth, ft.
85								85
90								90
95								95
100								100
105								105
110								110
115								115
120								120
125								125
130								130
135								135
140								140
145								145
150								150
155								155
160								160
165								165
170								170

GRAVEL EXPLORATION

(pg. 1 of 2)

DRILLER

DRILL METHOD

Est. Wt. Level (ft.)

BILLY LUTES
sonic
15'LATITUDE
LONGITUDE
ELEVATION30, 884 239
-93 43 753HOLE ID MACA 7
PROJECT
DATE

TOTAL DEPTH: 96

	OB	Avg. FM	Sand Thick.	BY	Samp. Thick.	Avg. % >1/4"	TPA* >1/4"	MR 1/4"	Thick, ft.	Tested Wt. (lbs.)	#8	> 1/4"	> 3/8"	> 1/2"	> 1"	> 1-1/2"	Depth, ft.
TOTAL HOLE	6			61	45	15%	14,997	8.8									
PRODUCTION CUTOFF	-	-	-	61	45	15%	14,997	8.8									
OVERBURDEN																	5
OB S-SAND, SILTY, TRACE OF SILTY CLAY NO GRAVEL																	10
																	15
SAND & GRAVEL									5	10.7		9%	7%	6%	3%	0%	20
SAND & GRAVEL									5	10.6		17%	15%	13%	3%	0%	25
SAND, W/TRACE TO LEAN GRAVEL									5	10.7		3%	2%	1%	0%	0%	30
SAND & GRAVEL									5	10.9		14%	10%	6%	0%	0%	35
SAND & GRAVEL									5	11.0		12%	9%	7%	1%	0%	40
SAND & GRAVEL									5	10.8		11%	9%	7%	2%	0%	45
SAND & GRAVEL									5	10.7		23%	12%	6%	0%	0%	50
SAND & GRAVEL, TRACE OF SILTY CLAY									5	10.8		20%	13%	9%	1%	0%	55
GRAVEL, WITH SAND									5	10.9		30%	16%	9%	3%	0%	60
S-SAND, SILTY, SILTY CLAY NO GRAVEL																	65
SAND, FINE GRAINED, NO GRAVEL																	70
SAND, FINE GRAINED, NO GRAVEL																	75
SAND & GRAVEL									6	13.0		12%	8%	5%	0%	0%	80

GRAVEL EXPLORATION

BORING ID *MACK 7* (2 of 2)
PROJECT

Thick, ft.	Tested Wt. (lbs.)	#8	> 1/4"	> 3/8"	> 1/2"	> 1"	> 1-1/2"	Depth, ft.
85								85
90								90
95								95
100								100
105								105
110								110
115								115
120								120
125								125
130								130
135								135
140								140
145								145
150								150
155								155
160								160
165								165
170								170

CLAY

GRAVEL EXPLORATION

BORING ID
PROJECT

(pg. 2 of 2)

[illegible]