MASTER

SAMPLE DESCRIPTIONS AND SUMMARY LOGS
OF SELECTED WELLS
WITHIN THE HANFORD RESERVATION
(Four Volumes)

VOLUME III

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Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 03/974

W 06/980

Altitude 705

Other Data used in
Interpretation

Driller's Log

Well 699 - 32 - 62

brownish buff
buff
brownish buff
buff
brown
brownish buff
greyish buff
brownish buff
grey
greyish brown
greyish yellow brown
brownish buff
buff
brownish buff
greyish tan
grey
grey
brownish buff
brownish buff

DEPTH
(FT.)

0

TO

20

ROCK CLASSIFICATION

silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>1</u>	<u>vfp-fp</u>	<u>m</u>	<u>sb rnd</u>
	sand	<u>29</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	>gravel	<u>1</u>	<u>vfp-mp</u>	<u>l</u>	<u>rnd</u>
	sand	<u>49</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>20</u>			

REMARKS

color
HCL

Brownish Buff

+

Slightly Micaceous

Unfrosted Quartz

Immature

DEPTH
(FT.)

20

TO

90

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>1</u>	<u>-vfp-</u>	<u>m</u>	<u>sb rnd</u>
	sand	<u>18</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	>gravel	<u>0</u>			
	sand	<u>71</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY		<u>10</u>			

REMARKS

color
HCL

Buff

+

Micaceous

Unfrosted Quartz

Immature

DEPTH
(FT.)

140

TO

150

ROCK CLASSIFICATION

slightly silty
slightly gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	10	vfp-fp	1	sb rnd
sand	18	vfs-vcrs	m	sb rnd
OTHER > gravel	0			
sand	63	vfs-vcrs	h	sb ang
SILT AND CLAY	9			

REMARKS

color Brown
HCL +

Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

150

TO

160

ROCK CLASSIFICATION

Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	15	vfs-ms	m	sb rnd
OTHER > gravel	0			
sand	77	vfs-ms	h	sb ang
SILT AND CLAY	8			

REMARKS

color Brownish Buff
HCL +

Slightly Micaceous Unfrosted Quartz

Mature

DEPTH
(FT.)

160

TO

165

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>1</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>20</u>	<u>vfs-crs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	> gravel	<u>0</u>	<u></u>	<u></u>	<u></u>
	sand	<u>74</u>	<u>vfs-crs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>5</u>			

REMARKS

color Greyish Buff
HCL +

Slightly Micaceous Unfrosted Quartz

Mature

DEPTH
(FT.)

165

TO

220

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>0</u>	<u></u>	<u></u>	<u></u>
	sand	<u>10</u>	<u>vfs-crs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	> gravel	<u>0</u>	<u></u>	<u></u>	<u></u>
	sand	<u>78</u>	<u>vfs-crs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>12</u>			

REMARKS

color Brownish Buff
HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

220

TO

225

ROCK CLASSIFICATION

Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	35	vfp-mp	1	sb ang
sand	5	vfs-vcrs	1	sb ang
OTHER > gravel	50	vfp-crp	m	rnd
sand	10	vfs-vcrs	m	sb rnd
SILT AND CLAY	0			

REMARKS

color Grey

HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

225

TO

280

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	35	vfp-crp	m	sb rnd
sand	11	vfs-vcrs	m	sb rnd
OTHER > gravel	27	vfp-mp	m	rnd
sand	16	vfs-vcrs	m	sb rnd
SILT AND CLAY	11			

REMARKS

color Greyish Brown

HCL +

Immature

DEPTH
(FT.)

280

TO

300

ROCK CLASSIFICATION

Gravelly silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>10</u>	<u>vfp-mp</u>	<u>m</u>	<u>rnd</u>
sand	<u>23</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER > gravel	<u>15</u>	<u>vfp-crp</u>	<u>m</u>	<u>rnd</u>
sand	<u>30</u>	<u>vfs-vcrs</u>	<u>h</u>	<u>sb rnd</u>
SILT AND CLAY	<u>22</u>			

REMARKS

color Greyish Yellow Brown
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

300

TO

315

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>22</u>	<u>vfp-vcrp</u>	<u>l</u>	<u>sb rnd</u>
sand	<u>9</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER > gravel	<u>16</u>	<u>vfp-vcrp</u>	<u>m</u>	<u>rnd</u>
sand	<u>44</u>	<u>vfs-vcrs</u>	<u>h</u>	<u>sb rnd</u>
SILT AND CLAY	<u>9</u>			

REMARKS

color Brownish Buff
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

315

TO

320

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	35	vfp-crp	m	rnd
	sand	3	vfs-vcrs	m	sb rnd
OTHER	>gravel	35	vfp-mp	m	rnd
	sand	25	vfs-vcrs	h	sb rnd
SILT AND CLAY		2			

REMARKS

color Buff

HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

320

TO

400

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	27	vfp-crp	m	rnd
	sand	14	vfs-vcrs	m	sb rnd
OTHER	>gravel	27	vfp-vcrp	m	rnd
	sand	23	vfs-vcrs	h	sb rnd
SILT AND CLAY		9			

REMARKS

color Brownish Buff

HCL -

Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

400

TO

415

ROCK CLASSIFICATION

gravelly sandy silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	10	vfp-mp	l	sb ang
	sand	2	vfs-ms	h	sb rnd
OTHER	>gravel	5	vfp-mp	l	sb ang
	sand	33	vfs-ms	h	sb rnd
SILT AND CLAY		50			

REMARKS

color Greyish Tan
HCL -

Micaceous

Immature

DEPTH
(FT.)

415

TO

435

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	0			
	sand	20	vfs-ms	m	sb rnd
OTHER	>gravel	0			
	sand	70	vfs-ms	h	sb rnd
SILT AND CLAY		10			

REMARKS

color Grey
HCL -

Micaceous

Immature

DEPTH
(FT.)

435

TO

465

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>11</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>8</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	>gravel	<u>5</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>50</u>	<u>vfs-vcrs</u>	<u>h</u>	<u>sb rnd</u>
SILT AND CLAY		<u>26</u>			

REMARKS

color GreyHCL -

Micaceous

Immature

DEPTH
(FT.)

465

TO

480

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>0</u>			
	sand	<u>8</u>	<u>vfs-ms</u>	<u>m</u>	<u>sb rnd</u>
OTHER	>gravel	<u>0</u>			
	sand	<u>80</u>	<u>vfs-ms</u>	<u>h</u>	<u>sb ang</u>
SILT AND CLAY		<u>12</u>			

REMARKS

color Brownish BuffHCL -Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

480

TO

500

ROCK CLASSIFICATION

slightly silty gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	5	vfp-mp	l	rnd
sand	18	vfs-vcrs	m	sb rnd
OTHER > gravel	6	vfp-mp	m	sb rnd
sand	62	vfs-vcrs	h	sb ang
SILT AND CLAY	9			

REMARKS

color Brownish BuffHCL -

Micaceous Unfrosted Quartz

Immature

Total Drilled Depth reported as 501'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color _____

HCL _____

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 034044

W 038951

Altitude 533

Other Data used in
Interpretation

(1) Driller's Log

(2) Descriptive Log from
Newcomb, et al, 1972, p.68

Well 699 - 34 - 39B

brownish black

brownish black
blackish grey
black

brownish black

greyish black
blackish grey
greyish black
greyish black

greyish brown

DEPTH
(FT.)

0

TO

40

ROCK CLASSIFICATION

slightly silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	0			
sand	45	vfs-vcrs	m	sb rnd
OTHER > gravel	0			
sand	40	vfs-vcrs	m	sb ang
SILT AND CLAY	15			

REMARKS

color Brownish Black ("salt & pepper")
HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

40

TO

45

ROCK CLASSIFICATION

gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	10	vfp-fp	1	sb rnd
sand	42	vfs-vcrs	m	sb rnd
OTHER > gravel	5	vfp-fp	1	sb rnd
sand	42	vfs-vcrs	m	sb ang
SILT AND CLAY	1			

REMARKS

color Brownish Black ("salt & pepper")
HCL +

Unfrosted Quartz

Immature

DEPTH
(FT.)

45

TO

50

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	35	vfp-mp	m	sb rnd
	sand	27	vfs-vcrs	m	sb rnd
OTHER	>gravel	10	vfp-mp	m	rnd
	sand	17	vfs-vcrs	m	sb rnd
SILT AND CLAY		11			

REMARKS

color Blackish Grey

HCL

-

Slightly Micaceous

Immature

DEPTH
(FT.)

50

TO

60

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	0			
	sand	65	vfs-ms	m	sb rnd
OTHER	>gravel	0			
	sand	35	vfs-ms	m	sb ang
SILT AND CLAY		0			

REMARKS

color Greyish Black ("salt & pepper")

HCL

-

Unfrosted Quartz

Very Mature

DEPTH
(FT.)

60

TO

85

ROCK CLASSIFICATION

Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	80	vfp-mp	m	sb rnd
	sand	9	vfs-vcrs	m	sb rnd
OTHER	>gravel	5	vfp-mp	m	sb rnd
	sand	5	vfs-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Brownish BlackHCL -

Immature

DEPTH
(FT.)

85

TO

90

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	20	vfp-mp	m	sb rnd
	sand	55	vfs-vcrs	m	sb rnd
OTHER	>gravel	7	vfp-mp	m	sb rnd
	sand	18	vfs-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Greyish Black ("salt & pepper")HCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

90

TO

95

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>></u> gravel	<u>50</u>	<u>vfp-mp</u>	<u>m</u>	<u>sb rnd</u>
sand	<u>24</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER <u>></u> gravel	<u>10</u>	<u>vfp-mp</u>	<u>m</u>	<u>sb rnd</u>
sand	<u>12</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY	<u>4</u>			

REMARKS

color Blackish GreyHCL -

Micaceous

Immature

DEPTH
(FT.)

95

TO

100

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>></u> gravel	<u>0</u>			
sand	<u>55</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER <u>></u> gravel	<u>0</u>			
sand	<u>45</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY	<u>0</u>			

REMARKS

color Greyish Black ("salt & pepper")HCL -

Unfrosted Quartz

Mature

DEPTH
(FT.)

100

TO

105

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	50	vfp-mp	m	sb rnd
	sand	30	vfs-vcrs	m	rnd
OTHER	>gravel	10	vfp-mp	m	sb rnd
	sand	10	vfs-vcrs	m	sb rnd
SILT AND CLAY		0			

REMARKS

color Greyish Black ("salt & pepper")
HCL -

Unfrosted Quartz Lithified by silt & clay

Immature

DEPTH
(FT.)

105

TO

115

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	0			
	sand	58	vfs-vcrs	m	sb rnd
OTHER	>gravel	0			
	sand	35	vfs-vcrs	m	sb ang
SILT AND CLAY		7			

REMARKS

color Greyish Black ("salt & pepper")
HCL -

Unfrosted Quartz

Mature

WELL NUMBER

699-34-39B

DEPTH
(FT.)

115

TO

130

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	43	vfp-mp	m	sb rnd
sand	30	vfs-vcrs	m	sb rnd
OTHER > gravel	10	vfp-mp	m	sb rnd
sand	12	vfs-vcrs	m	sb rnd
SILT AND CLAY	5			

REMARKS

color Greyish Brown

HCL -

Unfrosted Quartz

Immature

Total Drilled Depth reported as 130'?

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color

HCL

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 35 - 9

brownish black

black

brownish black

blackish brown

brownish black

greyish buff

greyish buff

brownish buff

tan buff

N 034700

W 009175

Altitude 498

Other Data used in
Interpretation

(1) Descriptive Log from
Newcomb, et al, 1972
p. 68-9

(2) Driller's Log

DEPTH
(FT.)

0

TO

4

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	0			
	sand	38	vfs-vcrs	m	sb rnd
OTHER	> gravel	0			
	sand	58	vfs-vcrs	h	sb rnd
SILT AND CLAY		4			

REMARKS

color Brownish BlackHCL -

Unfrosted Quartz

Mature

DEPTH
(FT.)

4

TO

37

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	43	vfp-vcrp	m	rnd
	sand	41	fs-vcrs	m	sb rnd
OTHER	> gravel	12	vfp-crp	m	w rnd
	sand	4	fs-vcrs	m	sb rnd
SILT AND CLAY		0			

REMARKS

color BlackHCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

37

TO

65

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	44	vfp-vcrp	m	rnd
	sand	30	vfs-vcrs	m	sb rnd
OTHER	> gravel	16	vfp-crp	m	w rnd
	sand	6	vfs-vcrs	m	sb rnd
SILT AND CLAY		4			

REMARKS

color Brownish BlackHCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

65

TO

85

ROCK CLASSIFICATION

slightly gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	5	vfp-crp	l	sb rnd
	sand	55	vfs-vcrs	m	rnd
OTHER	> gravel	2	vfp-crp	l	rnd
	sand	36	vfs-vcrs	h	w rnd
SILT AND CLAY		2			

REMARKS

color Blackish BrownHCL -

Slightly Micaceous Frosted Quartz

Submature

DEPTH
(FT.)

85

TO

97

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	43	vfp-crp	m	sb rnd
	sand	4	vfs-vcrs	m	sb rnd
OTHER	> gravel	33	vfp-mp	m	w rnd
	sand	17	vfs-vcrs	h	rnd
SILT AND CLAY		3			

REMARKS

color Brownish BlackHCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

97

TO

133

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	14	vfp-crp	m	sb rnd
	sand	16	vfs-vcrs	m	sb rnd
OTHER	> gravel	40	vfp-smcb	m	rnd
	sand	25	vfs-vcrs	m	sb rnd
SILT AND CLAY		5			

REMARKS

color Greyish BuffHCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

133

TO

149

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	18	vfp-mp	m	rnd
	sand	27	vfs-vcrs	m	sb rnd
OTHER	>gravel	22	vfp-crp	l	w rnd
	sand	27	vfs-vcrs	m	sb rnd
SILT AND CLAY		6			

REMARKS

color Greyish BuffHCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

149

TO

165

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	6	vfp-fp	m	sb ang
	sand	12	vfs-vcrs	m	sb ang
OTHER	>gravel	14	vfp-mp	m	rnd
	sand	67	vfs-vcrs	h	sb rnd
SILT AND CLAY		1			

REMARKS

color Brownish BuffHCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

165

TO

176

ROCK CLASSIFICATION

Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	0			
sand	2	vfs-crs	m	sb ang
OTHER > gravel	0			
sand	3	vfs-crs	m	sb rnd
SILT AND CLAY	95			

REMARKS

color Tan- Buff
HCL +

Slightly Micaceous

Submature

Total Drilled Depth reported as 164'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 36 - 61A

N 036365

W 060704

Altitude 746

Other Data used in
Interpretation

(1) Driller's Log

(2) Sieve analyses in
McHenry, 1957, p.46(?)

DEPTH
(FT.)

0

TO

5

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	2	vfp-mp	m	sb rnd
	sand	34	vfs-vcrs	l	rnd
OTHER	>gravel	2	vfp-mp	m	sb rnd
	sand	57	vfs-vcrs	m	sb rnd
SILT AND CLAY		5			

REMARKS

color Greyish Buff
HCL +

Slightly Micaceous Frosted Quartz

Submature

DEPTH
(FT.)

5

TO

35

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	44	vfp-mp	l	rnd
	sand	18	vfs-vcrs	l	rnd
OTHER	>gravel	11	vfp-mp	l	w rnd
	sand	25	vfs-vcrs	l	rnd
SILT AND CLAY		2			

REMARKS

color Buff Grey
HCL + (5' - 10', 15' - 20'), - (25' - 35')

Slightly Micaceous Unfrosted Quartz

Sample intervals 10'-15' & 20'-25' missing

Immature

DEPTH
(FT.)

35

TO

40

ROCK CLASSIFICATION

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER > gravel
sand

SILT AND CLAY

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

40

TO

320

ROCK CLASSIFICATION

Sand

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER > gravel
sand

SILT AND CLAY

REMARKS

color
HCL

Tan Buff

+ (40'-275'), - (275'-320')

Slightly Micaceous Unfrosted Quartz

Submature

DEPTH
(FT.)

320

TO

330

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>15</u>	<u>vfp-mp</u>	<u>1</u>	<u>w rnd</u>
	sand	<u>3</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	> gravel	<u>15</u>	<u>vfp-mp</u>	<u>1</u>	<u>w rnd</u>
	sand	<u>64</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>3</u>			

REMARKS

color Greyish BuffHCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

330

TO

395

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	32	vfp-crp	m	rnd
	sand	14	vfs-vcrs	m	sb rnd
OTHER	> gravel	28	vfp-crp	l	w rnd
	sand	22	vfs-vcrs	m	sb ang
SILT AND CLAY		4			

REMARKS

color Greyish BrownHCL -

Slightly Micaceous Unfrosted Quartz

Immature

Total Drilled Depth reported as 395'

Sample Description

brownish grey

Plant Coordinates

Altitude _____

Other Data used in
Interpretation

Well 699 - 37 - 43 cont

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

0

15

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	27	vfp-crp	m	rnd
	sand	41	vfs-vcrs	m	rnd
OTHER	> gravel	18	vfp-mp	l	w rnd
	sand	12	vfs-vcrs	m	sb ang
SILT AND CLAY		2			

REMARKS

color Tannish Grey

HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

15

110

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	2	vfp-crp	l	sb rnd
	sand	58	vfs-vcrs	m	rnd
OTHER	> gravel	2	vfp-crp	l	sb rnd
	sand	37	vfs-vcrs	m	ang
SILT AND CLAY		1			

REMARKS

color Blackish Grey ("salt & pepper")

HCL -

Caliche (sand present)

Slightly Micaceous

Unfrosted Quartz

Sample interval 55'-60' sieved (?)

Submature

DEPTH
(FT.)

110

TO

175

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>0</u>			
sand	<u>24</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER <u>> gravel</u>	<u>0</u>			
sand	<u>75</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY	<u>1</u>			

REMARKS

color Brownish Grey ("salt & pepper")
HCL -

Slightly Micaceous Frosted Quartz

Submature

DEPTH
(FT.)

175

TO

190

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>1</u>	<u>vfp-fp</u>	<u>1</u>	<u>rnd</u>
sand	<u>19</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER <u>> gravel</u>	<u>1</u>	<u>vfp-fp</u>	<u>1</u>	<u>rnd</u>
sand	<u>77</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY	<u>2</u>			

REMARKS

color Greyish Brown
HCL + (175'-180'), - (180'-185'), + (185'-190')

Slightly Micaceous Frosted Quartz

Submature

DEPTH
(FT.)

190

TO

200

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	55	vfp-smcb	1	rnd
sand	6	vfs-vcrs	m	rnd
OTHER > gravel	17	vfp-crp	1	rnd
sand	21	vfs-vcrs	m	sb rnd
SILT AND CLAY	1			

REMARKS

color Greyish Brown
HCL + (190'-195'), - (195'-200')

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

200

TO

205

ROCK CLASSIFICATION

silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	1	-vfp-	1	sb rnd
sand	20	vfs-vcrs	m	rnd
OTHER > gravel	0			
sand	44	vfs-vcrs	m	sb ang
SILT AND CLAY	35			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

205

TO

240

ROCK CLASSIFICATION

Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT >gravel	66	vfp-crp	l	sb rnd
sand	11	vfs-vcrs	m	sb rnd
OTHER >gravel	15	vfp-crp	m	rnd
sand	7	vfs-vcrs	m	ang
SILT AND CLAY	1			

REMARKS

color Brownish Black
HCL -

Slightly Micaceous

Unfrosted Quartz

Sample interval 230'-235'
sieved (?)

Immature

DEPTH
(FT.)

240

TO

245

ROCK CLASSIFICATION

Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT >gravel	0			
sand	40	fs-crs	m	sb ang
OTHER >gravel	0			
sand	60	fs-crs	m	sb ang
SILT AND CLAY	0			

REMARKS

color Greyish Black ("salt & pepper")
HCL -

Slightly Micaceous

Slightly Gypsiferous (sand present)

Unfrosted Quartz

Very Mature

DEPTH
(FT.)

245

TO

260

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	38	vfp-crp	l	sb rnd
	sand	26	vfs-vcrs	m	sb rnd
OTHER	> gravel	25	vfp-crp	l	sb rnd
	sand	10	vfs-vcrs	m	sb ang
SILT AND CLAY		1			

REMARKS

color Greyish Black
HCL -

Slightly Gypsiferous (sand present)

Sample intervals 245'-250' & 255'-260' sieved (?)

Immature

DEPTH
(FT.)

260

TO

280

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	1	-vfp-	l	sb rnd
	sand	15	vfs-vcrs	m	sb rnd
OTHER	> gravel	1	-vfp-	l	sb rnd
	sand	82	vfs-vcrs	m	ang
SILT AND CLAY		1			

REMARKS

color Buff Grey ("salt & pepper")
HCL -

Slightly Micaceous Unfrosted Quartz Sample interval 260'-275' sieved?

Submature

DEPTH
(FT.)

280

TO

285

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	0			
sand	15	vfs-vcrs	m	rnd
OTHER > gravel	0			
sand	83	vfs-vcrs	m	sb rnd
SILT AND CLAY	2			

REMARKS

color Greyish Brown

HCL -

Slightly Micaceous Sample sieved (?)

Submature

DEPTH
(FT.)

285

TO

300

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

300

TO

305

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	0			
sand	12	fs-vcrs	m	sb rnd
OTHER > gravel	0			
sand	88	fs-vcrs	m	sb ang
SILT AND CLAY	0			

REMARKS

color Greyish Buff ("salt & pepper")
HCL -

Slightly Micaceous Unfrosted Quartz

Mature

DEPTH
(FT.)

305

TO

310

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

310

TO

315

ROCK CLASSIFICATION

sandy Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	25	-vfp-	1	sb rnd
sand	10	vfs-vcrs	m	sb rnd
OTHER > gravel	25	-vfp-	1	sb rnd
sand	36	vfs-vcrs	m	sb ang
SILT AND CLAY	4			

REMARKS

color Greyish Tan

HCL -

Slightly Micaceous Sample sieved (?)

Immature

DEPTH
(FT.)

315

TO

320

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

320

TO

330

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	8	-vfp-	l	sb rnd
	sand	34	fs-vcrs	m	sb rnd
OTHER	> gravel	8	-vfp-	l	sb rnd
	sand	50	fs-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Buff Grey
HCL -

Slightly Gypsiferous (sand present)

Frosted Quartz

Sample interval 325'-330' sieved (?)

Immature

DEPTH
(FT.)

330

TO

335

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

335

TO

350

ROCK CLASSIFICATION

slightly gravelly sandy Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>3</u>	<u>vfp-mp</u>	<u>l</u>	<u>sb rnd</u>
	sand	<u>14</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
OTHER	>gravel	<u>3</u>	<u>vfp-mp</u>	<u>l</u>	<u>sb rnd</u>
	sand	<u>19</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		61			

REMARKS

color Greyish TanHCL -

Slightly Diatomaceous (fragments & sand present)

Slightly Micaceous

Lithified by silt & clay

Immature

DEPTH
(FT.)

350

TO

385

ROCK CLASSIFICATION

Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>1</u>	<u>-vfp-</u>	<u>1</u>	<u>sb rnd</u>
	sand	<u>2</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER	>gravel	<u>1</u>	<u>-vfp-</u>	<u>1</u>	<u>sb rnd</u>
	sand	<u>10</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>86</u>			

REMARKS

color Greyish Tan-Yellowish TanHCL + (350'-360'), -(360'-375'), + (375'-380'), - (380'-385')

Abundant Caliche (between 375' & 380')

Caliche (fragments present between
350' & 355')

Slightly Micaceous

Lithified

Sieved (?)

Immature

DEPTH
(FT.)

385

TO

390

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	0			
	sand	3	vfs-crs	1	sb ang
OTHER	>gravel	0			
	sand	85	vfs-crs	m	sb ang
SILT AND CLAY		12			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous Slightly Gypsiferous Frosted Quartz

Lithified by silt & clay Sample sieved (?)

Immature

DEPTH
(FT.)

390

TO

400

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	0			
	sand	11	vfs-crs	m	sb rnd
OTHER	>gravel	0			
	sand	88	vfs-crs	m	ang
SILT AND CLAY		1			

REMARKS

color Brownish Buff
HCL -

Slightly Diatomaceous (sand present) Slightly Micaceous

Unfrosted Quartz

Immature

DEPTH
(FT.)

400

TO

405

ROCK CLASSIFICATION

silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>1</u>	<u>-vfp-</u>	<u>1</u>	<u>sb rnd</u>
sand	<u>3</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER <u>> gravel</u>	<u>1</u>	<u>-vfp-</u>	<u>1</u>	<u>sb rnd</u>
sand	<u>75</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY	<u>20</u>			

REMARKS

color Light Grey
HCL -

Slightly Micaceous Reworked Ash present Lithified by silt & clay

Sample sieved (?)

Immature

DEPTH
(FT.)

405

TO

420

ROCK CLASSIFICATION

sandy Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>0</u>			
sand	<u>2</u>	<u>vfs-ms</u>	<u>m</u>	<u>rnd</u>
OTHER <u>> gravel</u>	<u>0</u>			
sand	<u>23</u>	<u>vfs-ms</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY	<u>75</u>			

REMARKS

color Greyish Tan
HCL +

Slightly Micaceous Lithified by silt, clay & CaCO₃

Immature

WELL NUMBER

699-37-43

DEPTH
(FT.)

420

TO

425

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel sand	_____	_____	_____	_____
OTHER > gravel sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

425

TO

510

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel sand	23 19	vfp-smcb vfs-vcrs	l m	sb rnd rnd
OTHER > gravel sand	18 35	vfp-smcb vfs-vcrs	m m	w rnd sb rnd
SILT AND CLAY	5			

REMARKS

color
HCL

Brownish Grey

-

Slightly Micaceous Frosted Quartz Compacted

Sample intervals 445'-450', 475'-480', 490'-495' & 500'-505' sieved (?)

Immature

WELL NUMBER

699-37-43

DEPTH
(FT.)

510

TO

517

ROCK CLASSIFICATION

Sand & Basalt Flow

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	10	-	-	-
	sand	80	vfs-vcrs	m	sb rnd-v ang
OTHER	>gravel	0			
	sand	9	vfs-vcrs	m	ang
SILT AND CLAY		1			

REMARKS

color Greyish Black
HCL -

Unfrosted Quartz Compacted (?)

Immature

Total Drilled Depth reported as 517'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel				
	sand				
OTHER	>gravel				
	sand				
SILT AND CLAY					

REMARKS

color _____
HCL _____

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 37 - 82B

N 037000
W 081999
Altitude 634

Other Data used in
Interpretation

see 699-37-82A

W. K. Summers & Associates

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 37 - 82B cont

brownish grey

brownish grey
brownish grey
greyish brown

brownish grey

grey
brownish grey
grey
brownish black

Altitude

Other Data used in
Interpretation

DEPTH
(FT.)

0

TO

5

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>1</u>	<u>-vfp-</u>	<u>1</u>	<u>rnd</u>
	sand	<u>17</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>ang</u>
OTHER	> gravel	<u>0</u>	<u></u>	<u></u>	<u></u>
	sand	<u>79</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>ang</u>
SILT AND CLAY		<u>3</u>			

REMARKS

color Brownish Buff
HCL +

Micaceous Frosted Quartz

Mature

DEPTH
(FT.)

5

TO

10

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>25</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb rnd</u>
	sand	<u>43</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	> gravel	<u>3</u>	<u>vfp-fp</u>	<u>m</u>	<u>rnd</u>
	sand	<u>25</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>ang</u>
SILT AND CLAY		<u>4</u>			

REMARKS

color Brownish Grey
HCL +

Abundant Caliche (pebbles & sand) Slightly Micaceous

Immature

DEPTH
(FT.)

10

TO

15

ROCK CLASSIFICATION

Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	55	vfp-crp	l	w rnd
	sand	11	vfs-vcrs	m	rnd
OTHER	> gravel	30	vfp-vcrp	l	w rnd
	sand	2	vfs-vcrs	h	sb rnd
SILT AND CLAY		2			

REMARKS

color Tanned Grey

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

15

TO

20

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	50	vfp-vcrp	l	w rnd
	sand	12	vfs-vcrs	m	rnd
OTHER	> gravel	15	vfp-vcrp	l	w rnd
	sand	19	vfs-vcrs	m	sb rnd
SILT AND CLAY		4			

REMARKS

color Greyish Tan

HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

20

TO

25

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>15</u>	<u>vfp-mp</u>	<u>m</u>	<u>sb rnd</u>
	sand	<u>18</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	>gravel	<u>2</u>	<u>vfp-fp</u>	<u>m</u>	<u>rnd</u>
	sand	<u>58</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>7</u>			

REMARKS

color Greyish TanHCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

25

TO

30

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>0</u>			
	sand	<u>20</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	>gravel	<u>0</u>			
	sand	<u>77</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>3</u>			

REMARKS

color Whitish BuffHCL +

Caliche (sand present)

Slightly Micaceous

Frosted Quartz

Mature

DEPTH
(FT.)

30

TO

50

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	0			
	sand	5	vfs-ms	1	rnd
OTHER	>gravel	0			
	sand	94	vfs-ms	h	sb ang
SILT AND CLAY		1			

REMARKS

color Brownish Buff
HCL - (30'-35'), + (35'-50')

Micaceous Frosted Quartz

Mature

DEPTH
(FT.)

50

TO

55

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	1	-fp-	1	rnd
	sand	5	vfs-vcrs	1	rnd
OTHER	>gravel	0			
	sand	94	vfs-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Greyish Buff
HCL +

Slightly Micaceous Unfrosted Quartz

Mature

DEPTH
(FT.)

55

TO

75

ROCK CLASSIFICATION

Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	3	vfs-ms	1	rnd
OTHER > gravel	0			
sand	96	vfs-ms	m	sb ang
SILT AND CLAY	1			

REMARKS

color Brownish Buff
HCL +

Micaceous Frosted Quartz

Mature

DEPTH
(FT.)

75

TO

95

ROCK CLASSIFICATION

Silt

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	1	vfs-fs	1	rnd
OTHER > gravel	0			
sand	9	vfs-fs	h	sb ang
SILT AND CLAY	90			

REMARKS

color Tan
HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

95

TO

100

ROCK CLASSIFICATION

Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT >gravel	90	vfp-crp	m	rnd
sand	0			
OTHER >gravel	10	vfp-crp	l	w rnd
sand	0			
SILT AND CLAY	0			

REMARKS

color Grey

HCL +

CaCO₃ Cement

Mature

DEPTH
(FT.)

100

TO

170

ROCK CLASSIFICATION

silty sandy Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT >gravel	34	vfp-crp	m	sb rnd
sand	21	vfs-vcrs	m	rnd
OTHER >gravel	13	vfp-crp	m	rnd
sand	24	vfs-vcrs	m	rnd
SILT AND CLAY	8			

REMARKS

color Greyish Tan

HCL + (100'-125'), - (125'-170')

Slightly Micaceous

Immature

DEPTH (FT.)	<div style="border: 1px solid black; padding: 2px 10px;">170</div>	TO	<div style="border: 1px solid black; padding: 2px 10px;">180</div>	ROCK CLASSIFICATION <div style="border: 1px solid black; padding: 2px 20px;">gravelly Sand</div>
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		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>15</u>	<u>vfp-crp</u>	<u>l</u>	<u>rnd</u>
	sand	<u>26</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	> gravel	<u>5</u>	<u>vfp-mp</u>	<u>m</u>	<u>rnd</u>
	sand	<u>48</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>6</u>			

REMARKS

color	<u>Greyish Brown</u>
HCL	<u>-</u>

Slightly Micaceous

Immature

DEPTH (FT.)	<div style="border: 1px solid black; padding: 2px 10px;">180</div>	TO	<div style="border: 1px solid black; padding: 2px 10px;">185</div>	ROCK CLASSIFICATION <div style="border: 1px solid black; padding: 2px 20px;">sandy Gravel</div>
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		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>50</u>	<u>vfp-vcrp</u>	<u>l</u>	<u>w rnd</u>
	sand	<u>8</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	> gravel	<u>10</u>	<u>vfp-mp</u>	<u>m</u>	<u>rnd</u>
	sand	<u>30</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>2</u>			

REMARKS

color	<u>Greyish Brown</u>
HCL	<u>-</u>

Slightly Micaceous

Immature

DEPTH
(FT.)

185

TO

195

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	25	vfp-crp	l	w rnd
	sand	23	vfs-vcrs	m	sb rnd
OTHER	>gravel	10	vfp-mp	m	w rnd
	sand	32	vfs-vcrs	m	rnd
SILT AND CLAY		10			

REMARKS

color Greyish Brown

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

195

TO

205

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	30	vfp-crp	l	w rnd
	sand	8	vfs-vcrs	m	sb ang
OTHER	>gravel	15	vfp-crp	m	w rnd
	sand	41	vfs-vcrs	m	sb rnd
SILT AND CLAY		6			

REMARKS

color Greyish Brown

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

205

TO

245

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	14	vfp-mp	1	rnd
	sand	9	vfs-vcrs	1	sb rnd
OTHER	> gravel	11	vfp-crp	m	w rnd
	sand	58	vfs-vcrs	m	sb rnd
SILT AND CLAY		8			

REMARKS

color Greyish BrownHCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

245

TO

365

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	30	vfp-mp	1	rnd
	sand	8	vfs-vcrs	1	sb rnd
OTHER	> gravel	14	vfp-mp	m	rnd
	sand	41	vfs-vcrs	m	sb rnd
SILT AND CLAY		7			

REMARKS

color Light BrownHCL + (245'-300'), - (300'-315'), + (315'-365')

Caliche (pebbles & sand present between 280' & 290')

Slightly Micaceous Frosted Quartz

Immature

DEPTH (FT.) 365 TO 375 ROCK CLASSIFICATION slightly silty gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	25	vfp-mp	l	rnd
sand	15	vfs-vcrs	m	sb rnd
OTHER > gravel	0			
sand	52	vfs-vcrs	m	sb ang
SILT AND CLAY	8			

REMARKS

color Light Brown
HCL +

Caliche (pebbles present) Slightly Micaceous Frosted Quartz

Immature

DEPTH (FT.) 375 TO 395 ROCK CLASSIFICATION slightly silty gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT ≥ gravel	16	vfp-mp	l	rnd
sand	16	vfs-vcrs	m	sb rnd
OTHER ≥ gravel	4	vfp-fp	l	sb rnd
sand	56	vfs-vcrs	m	rnd
SILT AND CLAY	8			

REMARKS

color Greyish Brown
HCL + (375'-385'), - (385'-395')

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

395

TO

400

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	10	vfp-mp	1	sb rnd
	sand	8	vfs-vcrs	1	sb rnd
OTHER	>gravel	10	vfp-mp	1	sb rnd
	sand	66	vfs-vcrs	m	sb ang
SILT AND CLAY		6			

REMARKS

color Yellowish Brown

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

400

TO

405

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel				
	sand				
OTHER	>gravel				
	sand				
SILT AND CLAY					

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

405

TO

415

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	10	vfp-mp	1	w rnd
	sand	3	vfs-vcrs	1	sb ang
OTHER	> gravel	15	vfp-mp	m	w rnd
	sand	52	vfs-vcrs	m	sb ang
SILT AND CLAY		20			

REMARKS

color Whitish Tan

HCL -

Slightly Micaceous Lithified by silt & clay

Immature

DEPTH
(FT.)

415

TO

455

ROCK CLASSIFICATION

sandy Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	1	-vfp-	1	w rnd
	sand	3	vfs-ms	1	sb ang
OTHER	> gravel	0			
	sand	17	vfs-ms	m	rnd
SILT AND CLAY		79			

REMARKS

color Brownish Grey

HCL -

Slightly Micaceous Sample intervals 420'-425' & 445'-450' missing

Lithified by silt & clay

Immature

DEPTH
(FT.)

455

TO

465

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	0			
	sand	10	vfs-crs	m	sb rnd
OTHER	> gravel	0			
	sand	80	vfs-crs	m	sb rnd
SILT AND CLAY		10			

REMARKS

color Brownish Grey
HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

465

TO

480

ROCK CLASSIFICATION

silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	0			
	sand	4	vfs-vcrs	l	sb ang
OTHER	> gravel	0			
	sand	56	vfs-vcrs	m	sb ang
SILT AND CLAY		20			

REMARKS

color Brownish Grey
HCL +

Abundant Caliche (20%, fragments) Slightly Micaceous

Lithified by silt, clay & CaCO₃

Immature

DEPTH
(FT.)

480

TO

490

ROCK CLASSIFICATION

silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	0			
	sand	4	vfs-crs	m	sb rnd
OTHER	>gravel	0			
	sand	63	vfs-crs	m	sb ang
SILT AND CLAY		33			

REMARKS

color Brownish Grey
HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

490

TO

550

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	14	vfp-mp	l	rnd
	sand	24	vfs-vcrs	m	rnd
OTHER	>gravel	7	vfp-crp	m	rnd
	sand	43	vfs-vcrs	m	sb rnd
SILT AND CLAY		12			

REMARKS

color Brownish Grey
HCL + (490'-515'), - (515'-550')

Slightly Micaceous

Immature

DEPTH
(FT.)

550

TO

555

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	0			
	sand	15	vfs-vcrs	m	rnd
OTHER	> gravel	0			
	sand	75	vfs-vcrs	m	sb rnd
SILT AND CLAY		10			

REMARKS

color Brownish Grey

HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

555

TO

560

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	13	vfp-fp	m	rnd
	sand	9	vfs-vcrs	m	sb rnd
OTHER	> gravel	13	vfp-fp	m	rnd
	sand	55	vfs-vcrs	m	sb rnd
SILT AND CLAY		10			

REMARKS

color Brownish Grey

HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

560

TO

565

ROCK CLASSIFICATION

slightly silty
slightly gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	3	vfp-fp	l	rnd
	sand	7	vfs-vcrs	m	sb rnd
OTHER	>gravel	3	vfp-fp	l	rnd
	sand	75	vfs-vcrs	m	sb rnd
SILT AND CLAY		12			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

565

TO

585

ROCK CLASSIFICATION

slightly silty
slightly gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	5	vfp-mp	l	rnd
	sand	6	vfs-vcrs	m	sb rnd
OTHER	>gravel	3	vfp-mp	l	rnd
	sand	74	vfs-vcrs	m	rnd
SILT AND CLAY		12			

REMARKS

color Brownish Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

585

TO

590

ROCK CLASSIFICATION

gravelly silty Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	15	vfp-crp	m	sb rnd
sand	4	vfs-crs	m	sb ang
OTHER > gravel	10	vfp-crp	l	w rnd
sand	56	vfs-crs	m	sb ang
SILT AND CLAY	15			

REMARKS

color
HCL

Grey

-

Micaceous

Frosted Quartz

Lithified (?)

Immature

DEPTH
(FT.)

590

TO

600

ROCK CLASSIFICATION

Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	3	vfs-crs	l	sb rnd
OTHER > gravel	0			
sand	89	vfs-crs	m	sb rnd
SILT AND CLAY	8			

REMARKS

color
HCL

Brownish Grey

-

Slightly Micaceous

Frosted Quartz

Mature

DEPTH
(FT.)

600

TO

605

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	20	vfp-fp	m	sb ang
	sand	56	vfs-vcrs	m	sb rnd
OTHER	> gravel	0			
	sand	22	vfs-vcrs	m	sb ang
SILT AND CLAY		2			

REMARKS

color Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

605

TO

610

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	30	vfp-fp	m	sb ang
	sand	56	vfs-vcrs	m	sb rnd
OTHER	> gravel	0			
	sand	13	vfs-vcrs	m	sb rnd
SILT AND CLAY		1			

REMARKS

color Brownish Black
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

610

TO

615

ROCK CLASSIFICATION

Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	90	vfs-vcrs	m	ang
OTHER > gravel	0			
sand	10	vfs-vcrs	m	sh rnd
SILT AND CLAY	0			

REMARKS

color Grey ("salt & pepper")
HCL -

Slightly Micaceous Frosted Quartz

Mature

DEPTH
(FT.)

615

TO

620

ROCK CLASSIFICATION

Sand & Basalt Flow

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel				
sand				
OTHER > gravel	0			
sand	5	fs-vcrs	m	sh ang
SILT AND CLAY	0			

REMARKS

color Black
HCL -

Unfrosted Quartz

Mature

WELL NUMBER

699-37-82B

DEPTH
(FT.)

620

TO

627

ROCK CLASSIFICATION

Sand & Basalt Flow

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	0			
	sand	92	fs-vcrs	m	v ang
OTHER	>gravel	0			
	sand	8	fs-vcrs	m	v ang
SILT AND CLAY		0			

REMARKS

color Grey ("salt & pepper")
HCL -

Slightly Micaceous Unfrosted Quartz Sample interval 625'-627' missing
Mature

Total Drilled Depth reported as 627'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel				
	sand				
OTHER	>gravel				
	sand				
SILT AND CLAY					

REMARKS

color _____
HCL _____

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 038142

W 070226

Altitude 709

Other Data used in
Interpretation

(1) Driller's Log

(2) E-Log

Well 699 - 38 - 70

greyish brown

greyish tan buff

greyish buff

greyish buff

brownish tan

yellowish tan

brownish tan

buff grey

brownish grey

brownish tan

greyish buff

brownish buff

TD 413

DEPTH
(FT.)TO
0 25

ROCK CLASSIFICATION

silty sandy Gravel

		%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT	>gravel	26	vfp-mp	l	rnd
	sand	21	vfs-vcrs	m	sb rnd
OTHER	>gravel	12	vfp-mp	m	w rnd
	sand	34	vfs-vcrs	m	sb ang
SILT AND CLAY		7			

REMARKS

color Greyish Brown

HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)TO
25 70

ROCK CLASSIFICATION

gravelly Sand

		%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT	>gravel	7	vfp-mp	l	rnd
	sand	9	vfs-vcrs	m	sb rnd
OTHER	>gravel	7	vfp-mp	l	rnd
	sand	73	vfs-vcrs	m	sb ang
SILT AND CLAY		4			

REMARKS

color Greyish Tan-Buffer

HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

70

TO

75

ROCK CLASSIFICATION

slightly gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	3	vfp-mp	1	rnd
		7	vfs-vcrs	m	rnd
OTHER	> gravel sand	3	vfp-mp	1	rnd
		87	vfs-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Greyish Buff

HCL -

Slightly Micaceous Frosted Quartz

Submature

DEPTH
(FT.)

75

TO

175

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	3	vfp-mp	1	rnd
		6	vfs-vcrs	m	sb rnd
OTHER	> gravel sand	2	vfp-mp	1	rnd
		85	vfs-vcrs	m	sb rnd
SILT AND CLAY		4			

REMARKS

color Greyish Buff-Tan

HCL + (75'-100'), - (100'-103'), + (103'-170'), - (170'-173')
+ (173'-175')

Caliche (fragments present between 150' & 155') Slightly Micaceous

Frosted Quartz

Submature

DEPTH
(FT.)

175

TO

180

ROCK CLASSIFICATION

BASALT >gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER >gravel
sand

SILT AND CLAY

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

180

TO

200

ROCK CLASSIFICATION

silty Sand

BASALT >gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER >gravel
sand

SILT AND CLAY

REMARKS

color

HCL

Brownish Tan

+

Slightly Micaceous

Compacted (?)

Immature

DEPTH
(FT.)

200

TO

230

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>8</u>	<u>vfp-crp</u>	<u>m</u>	<u>sb rnd</u>
	sand	<u>13</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	> gravel	<u>4</u>	<u>vfp-crp</u>	<u>m</u>	<u>sb rnd</u>
	sand	<u>53</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY		<u>22</u>			

REMARKS

color Yellowish Tan
HCL +

Abundant Caliche (fragments, pebbles, & sand) Slightly Micaceous
Lithified by silt, clay & CaCO₃
Caliche pebble & "dirty" caliche layers interbedded

Immature

DEPTH
(FT.)

230

TO

270

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>15</u>	<u>vfp'-crp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>9</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	> gravel	<u>7</u>	<u>vfp'-crp</u>	<u>1</u>	<u>w rnd</u>
	sand	<u>61</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		8			

REMARKS

color Brownish Tan
HCL +

Slightly Micaceous Lithified by silt, clay & CaCO₃

Immature

DEPTH
(FT.)

270

TO

290

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	20	vfp-crp	l	w rnd
sand	9	vfs-vcrs	m	sb rnd
OTHER > gravel	15	vfp-crp	l	w rnd
sand	55	vfs-vcrs	m	sb ang
SILT AND CLAY	1			

REMARKS

color Buff Grey
HCL -

Slightly Micaceous Slightly Gypsiferous (sand present)

Unfrosted Quartz

Immature

DEPTH
(FT.)

290

TO

300

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	40	vfp-crp	l	w rnd
sand	11	vfs-vcrs	m	rnd
OTHER > gravel	20	vfp-crp	l	w rnd
sand	28	vfs-vcrs	m	sb rnd
SILT AND CLAY	1			

REMARKS

color Brownish Grey
HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

300 TO 335

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	19	vfp-crp	l	rnd
sand	7	vfs-vcrs	m	rnd
OTHER > gravel	13	vfp-smcb	l	w rnd
sand	54	vfs-vcrs	m	rnd
SILT AND CLAY	7			

REMARKS

color Brownish Tan
HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

335 TO 360

ROCK CLASSIFICATION

gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	11	vfp-mp	l	w rnd
sand	9	vfs-vcrs	m	sb ang
OTHER > gravel	11	vfp-mp	l	w rnd
sand	69	vfs-vcrs	m	ang
SILT AND CLAY	0			

REMARKS

color Greyish Buff
HCL -

Slightly Diatomaceous (sand present)

Slightly Micaceous

Slightly Gypsiferous (sand present)

Unfrosted Quartz

Immature

699-38-70

DEPTH (FT.)		TO	ROCK CLASSIFICATION
	360	413	gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>8</u>	<u>vfp-crp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>7</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
OTHER	> gravel	<u>9</u>	<u>vfp-smcb</u>	<u>1</u>	<u>rnd</u>
	sand	<u>73</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY		3			

REMARKS

color	<u>Brownish Buff</u>
HCL	-

Slightly Micaceous Frosted Quartz Sample intervals 400'-405' &
Immature 410'-413' missing

Total Drilled Depth reported as 413'

DEPTH (FT.) TO ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	_____	_____	_____	_____
	sand	_____	_____	_____	_____
OTHER	> gravel	_____	_____	_____	_____
	sand	_____	_____	_____	_____
SILT AND CLAY					

REMARKS

color _____
HCL _____

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 40 - 33

N 040404

W 033426

Altitude 516

Other Data used in
Interpretation

(1) Driller's Log

(2) E-Log

blackish grey

grey ; ASH FRAGMENTS

grey

tannish black

grey

grey

greyish tan

greyish buff

greyish tan

light grey

light grey ; DIATOMITE

light yellow

light grey ; TRACE DIATOMITE

medium grey

light grey

light grey

brownish grey

greyish buff

greyish buff

tanned grey

greyish brown

DEPTH
(FT.)

0

TO

20

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	<u>> gravel</u>	<u>40</u>	<u>vfp-mp</u>	<u>m</u>	<u>sb rnd</u>
	<u>sand</u>	<u>25</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	<u>> gravel</u>	<u>24</u>	<u>vfp-smcb</u>	<u>l</u>	<u>rnd</u>
	<u>sand</u>	<u>7</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>4</u>			

REMARKS

color Blackish Grey
HCL + (0'-5'), - (5'-20')

Slightly Micaceous

Immature

DEPTH
(FT.)

20

TO

25

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	<u>> gravel</u>	<u>2</u>	<u>vfp-fp</u>	<u>m</u>	<u>rnd</u>
	<u>sand</u>	<u>70</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	<u>> gravel</u>	<u>2</u>	<u>vfp-fp</u>	<u>m</u>	<u>rnd</u>
	<u>sand</u>	<u>25</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY		<u>1</u>			

REMARKS

color Grey ("salt & pepper")
HCL -

Slightly Micaceous

Ash (fragments present)

Unfrosted Quartz

Mature

DEPTH
(FT.)

25

TO

30

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	65	vfp-mp	l	sb rnd
	sand	18	ms-vcrs	m	rnd
OTHER	>gravel	15	vfp-crp	m	w rnd
	sand	2	ms-vcrs	m	sb rnd
SILT AND CLAY		0			

REMARKS

color Grey ("salt & pepper")
HCL -

Immature

DEPTH
(FT.)

30

TO

35

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	50	vfp-mp	l	sb rnd
	sand	19	vfs-vcrs	m	sb rnd
OTHER	>gravel	20	vfp-crp	m	w rnd
	sand	8	vfs-vcrs	m	rnd
SILT AND CLAY		3			

REMARKS

color Tannish Black
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

35

TO

40

ROCK CLASSIFICATION

gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	13	vfp-crp	m	sb rnd
sand	46	vfs-vcrs	m	sb rnd
OTHER > gravel	13	vfp-crp	m	sb rnd
sand	26	vfs-vcrs	m	sb rnd
SILT AND CLAY	2			

REMARKS

color Grey ("salt & pepper")
HCL -

Frosted Quartz

Immature

DEPTH
(FT.)

40

TO

45

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

45

TO

50

ROCK CLASSIFICATION

Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	69	vfp-crp	m	rnd
sand	1	fs-vcrs	m	sb rnd
OTHER > gravel	29	vfp-crp	m	rnd
sand	1	fs-vcrs	l	sb ang
SILT AND CLAY	0			

REMARKS

color Grey ("salt & pepper")
HCL -

Slightly Micaceous Unfrosted Quartz

Submature

DEPTH
(FT.)

50

TO

55

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

55

TO

60

ROCK CLASSIFICATION

silty sandy Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT >gravel	35	vfp-vcrp	l	rnd
sand	10	vfs-vcrs	m	rnd
OTHER >gravel	25	vfp-crp	m	w rnd
sand	24	vfs-vcrs	m	sp rnd
SILT AND CLAY	6			

REMARKS

color Greyish Tan

HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

60

TO

65

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT >gravel				
sand				
OTHER >gravel				
sand				
SILT AND CLAY				

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

65

TO

70

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	35	vfp-crp	1	w rnd
sand	7	vfs-vcrs	1	sb rnd
OTHER > gravel	30	vfp-crp	1	w rnd
sand	28	vfs-vcrs	m	sb rnd
SILT AND CLAY	0			

REMARKS

color Greyish Buff

HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

70

TO

75

ROCK CLASSIFICATION

slightly gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	4	vfp-fp	1	rnd
sand	18	vfs-vcrs	1	sb rnd
OTHER > gravel	4	vfp-fp	1	rnd
sand	69	vfs-vcrs	m	sb rnd
SILT AND CLAY	5			

REMARKS

color Greyish Tan

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

75

TO

85

ROCK CLASSIFICATION

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER > gravel
sand

SILT AND CLAY

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

85

TO

110

ROCK CLASSIFICATION

silty sandy Gravel

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESS

47

vfp-crp

1

w rnd

5

vfs-vcrs

m

rnd

OTHER > gravel
sand

27

vfp-crp

m

w rnd

14

vfs-vcrs

m

sb rnd

SILT AND CLAY

7

REMARKS

color
HCL

Light Grey

-

Slightly Micaceous

Sample intervals 90'-95' & 100'-105' missing

Immature

DEPTH
(FT.)

110

TO

120

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	20	vfp-crp	1	rnd
	sand	10	vfs-vcrs	1	rnd
OTHER	>gravel	10	vfp-crp	m	rnd
	sand	32	vfs-vcrs	m	sb rnd
SILT AND CLAY		28			

REMARKS

color Light Grey

HCL -

Diatomaceous (10%, fragments & sand)

Lithified by silt & clay

Immature

DEPTH
(FT.)

120

TO

125

ROCK CLASSIFICATION

slightly gravelly Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	8	vfp-mp	1	sb rnd
	sand	2	vfs-vcrs	1	sb ang
OTHER	>gravel	0			
	sand	8	vfs-vcrs	m	sb ang
SILT AND CLAY		82			

REMARKS

color Light Yellow

HCL -

Lithified by silt & clay

Immature

DEPTH
(FT.)

125

TO

140

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand	_____	_____	_____	_____
OTHER > gravel sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

140

TO

145

ROCK CLASSIFICATION

silty Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand	1	-vfp-	m	sb rnd
	1	vfs-ms	l	sb ang
OTHER > gravel sand	1	-vfp-	m	sb rnd
	77	vfs-ms	m	sb rnd
SILT AND CLAY	20			

REMARKS

color
HCL

Light Grey

-

Slightly Diatomaceous (pebbles & sand present)

Slightly Micaceous

Unfrosted Quartz

Lithified (?)

Immature

DEPTH
(FT.)

145

TO

155

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand				
OTHER > gravel sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

155

TO

160

ROCK CLASSIFICATION

silty Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand	0 1	vfs-ms	1	sb ang
OTHER > gravel sand	0 64	vfs-ms	m	sb rnd
SILT AND CLAY	35			

REMARKS

color Medium Grey
HCL -

Caliche (pebbles & sand present)

Slightly Micaceous

Lithified (?)

Immature

DEPTH
(FT.)

160

TO

185

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand				
OTHER > gravel sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

185

TO

195

ROCK CLASSIFICATION

silty Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand	1 5	vfp-mp vfs-vcrs	1 1	rnd ang
OTHER > gravel sand	1 64	-vfp- vfs-vcrs	1 m	sb rnd sb rnd
SILT AND CLAY	29			

REMARKS

color Light Grey
HCL -

Slightly Micaceous Unfrosted Quartz Lithified (?)

Immature

DEPTH
(FT.)

195

TO

210

ROCK CLASSIFICATION

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER > gravel
sand

SILT AND CLAY

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

210

TO

235

ROCK CLASSIFICATION

silty sandy Gravel

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESS

19

vfp-crp

1

rnd

13

vfs-vcrs

1

sb rnd

OTHER > gravel
sand

19

vfp-crp

1

rnd

40

vfs-vcrs

m

rnd

SILT AND CLAY

9

REMARKS

color

Light Grey

HCL

-

Slightly Micaceous

Sample interval 215'-220' missing

Immature

DEPTH
(FT.)

235

TO

240

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

240

TO

250

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	20	vfp-crp	1	sb rnd
	sand	14	vfs-vcrs	1	sb ang
OTHER	> gravel	10	vfp-crp	m	w rnd
	sand	42	vfs-vcrs	1	sb rnd
SILT AND CLAY		14			

REMARKS

color
HCL

Brownish Grey

-

Slightly Gypsiferous

Lithified by silt & clay

Immature

DEPTH
(FT.)

250

TO

255

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	10	vfp-crp	1	sb rnd
	sand	16	ms-vcrs	1	sb rnd
OTHER	> gravel	25	vfp-crp	1	w rnd
	sand	49	ms-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Greyish Buff
HCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

255

TO

260

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	30	vfp-crp	1	rnd
	sand	8	vfs-vcrs	m	sb rnd
OTHER	> gravel	30	vfp-crp	1	rnd
	sand	30	vfs-vcrs	m	sb rnd
SILT AND CLAY		2			

REMARKS

color Greyish Buff
HCL -

Slightly Gypsiferous Unfrosted Quartz

Immature

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 41 - 23

N 040692
W 040692
Altitude 465

Other Data used in
Interpretation

- (1) Descriptive Log from
Newcomb, et al,
1972, p. 68
(2) Driller's Log

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>35</u>	<u>vfp-crp</u>	<u>l</u>	<u>rnd</u>
	sand	<u>10</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	>gravel	<u>25</u>	<u>vfp-crp</u>	<u>l</u>	<u>w rnd</u>
	sand	<u>22</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>8</u>			

REMARKS

color Light Grey
HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>8</u>	<u>vfp-fp</u>	<u>l</u>	<u>rnd</u>
	sand	<u>25</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	>gravel	<u>8</u>	<u>vfp-fp</u>	<u>l</u>	<u>rnd</u>
	sand	<u>25</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY		<u>34</u>			

REMARKS

color Light Grey
HCL -

Immature

DEPTH
(FT.)

10

TO

15

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	55	vfp-crp	l	rnd
	sand	4	vfs-vcrs	m	sb ang
OTHER	> gravel	20	vfp-crp	m	w rnd
	sand	17	vfs-vcrs	m	sb ang
SILT AND CLAY		4			

REMARKS

color Grey

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

15

TO

30

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	30	vfp-mp	l	sb rnd
	sand	27	vfs-vcrs	m	sb rnd
OTHER	> gravel	25	vfp-mp	m	sb rnd
	sand	16	vfs-vcrs	m	rnd
SILT AND CLAY		2			

REMARKS

color Dark Grey

HCL -

Slightly Micaceous

Frosted Quartz

Sample interval 20'-25' missing

Immature

WELL NUMBER

699-41-23

DEPTH
(FT.)

30

TO

40

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>3</u>	<u>vfp-mp</u>	<u>m</u>	<u>sb rnd</u>
	sand	<u>52</u>	<u>vfs-crs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	>gravel	<u>2</u>	<u>vfp-mp</u>	<u>m</u>	<u>sb rnd</u>
	sand	<u>43</u>	<u>vfs-crs</u>	<u>m</u>	<u>ang</u>
SILT AND CLAY		<u>0</u>			

REMARKS

color Greyish Black ("salt & pepper")
HCL -

Slightly Micaceous Unfrosted Quartz

Submature

DEPTH
(FT.)

40

TO

45

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	sand	<u> </u>	<u> </u>	<u> </u>	<u> </u>
OTHER	>gravel	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	sand	<u> </u>	<u> </u>	<u> </u>	<u> </u>
SILT AND CLAY		<u> </u>			

REMARKS

color
HCL

Sample missing

WELL NUMBER

699-41-23

DEPTH
(FT.)

45

TO

55

ROCK CLASSIFICATION

gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>14</u>	<u>vfp-crp</u>	<u>1</u>	<u>rnd</u>
sand	<u>11</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER > gravel	<u>9</u>	<u>vfp-crp</u>	<u>m</u>	<u>rnd</u>
sand	<u>62</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY	<u>4</u>			

REMARKS

color Greyish Brown
HCL - (45'-50'), + (50'-55')

Slightly Micaceous Unfrosted Quartz

Immature,

DEPTH
(FT.)

55

TO

65

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>40</u>	<u>vfp-crp</u>	<u>1</u>	<u>w rnd</u>
sand	<u>2</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER > gravel	<u>40</u>	<u>vfp-crp</u>	<u>m</u>	<u>w rnd</u>
sand	<u>17</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>ang</u>
SILT AND CLAY	<u>1</u>			

REMARKS

color Tanned Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

65

TO

75

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>20</u>	<u>vfp-crp</u>	<u>l</u>	<u>rnd</u>
	sand	<u>13</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	> gravel	<u>22</u>	<u>vfp-crp</u>	<u>m</u>	<u>rnd</u>
	sand	<u>44</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>1</u>			

REMARKS

color Greyish Brown
HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

75

TO

115

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>32</u>	<u>vfp-mp</u>	<u>l</u>	<u>w rnd</u>
	sand	<u>8</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	> gravel	<u>27</u>	<u>vfp-mp</u>	<u>l</u>	<u>w rnd</u>
	sand	<u>31</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>2</u>			

REMARKS

color Greyish Tan
HCL - (75'-95'), + (95'-100'), - (100'-115')

Slightly Micaceous Unfrosted Quartz

Immature

WELL NUMBER

699-41-23

DEPTH
(FT.)

115

TO

120

ROCK CLASSIFICATION

%SIZE RANGESPHERICITYROUNDNESSBASALT > gravel
sandOTHER > gravel
sand

SILT AND CLAY

REMARKS

color
HCL

Sample missing

Total Drilled Depth reported as 120'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

%SIZE RANGESPHERICITYROUNDNESSBASALT > gravel
sandOTHER > gravel
sand

SILT AND CLAY

REMARKS

color
HCL

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 042474

W 011725

Altitude 512

Other Data used in
Interpretation

(1) Driller's Log

(2) E-Logs

buff grey

grey

black

black

buff grey

whitish grey

black

grey

grey

brownish grey

greyish brown

brdwnish tan

tan

tan

brownish grey

greyish buff

grey

DEPTH
(FT.)

0

TO

10

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	20	-vfp-	l	sb ang
	sand	40	vfs-vcrs	m	rnd
OTHER	>gravel	0			
	sand	37	vfs-vcrs	m	rnd
SILT AND CLAY		3			

REMARKS

color Buff Grey
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

10

TO

50

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	34	vfp-crp	l	rnd
	sand	34	vfs-vcrs	m	rnd
OTHER	>gravel	9	vfp-mp	l	rnd
	sand	17	vfs-vcrs	m	rnd
SILT AND CLAY		6			

REMARKS

color Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

50

TO

55

ROCK CLASSIFICATION

gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>></u> gravel	25	vfp-mp	l	sb rnd
sand	66	ms-vcrs	m	rnd
OTHER <u>></u> gravel	3	vfp-mp	m	rnd
sand	6	ms-vcrs	m	rnd
SILT AND CLAY	0			

REMARKS

color Black
HCL -

Frosted Quartz

Immature

DEPTH
(FT.)

55

TO

80

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>></u> gravel	45	vfp-mp	l	sb rnd
sand	46	ms-vcrs	m	sb rnd
OTHER <u>></u> gravel	5	vfp-mp	m	rnd
sand	3	ms-vcrs	m	rnd
SILT AND CLAY	1			

REMARKS

color Black
HCL -

Immature

DEPTH
(FT.)

80

TO

105

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	39	vfp-mp	l	sb rnd
sand	22	vfs-vcrs	m	sb rnd
OTHER > gravel	6	vfp-mp	m	rnd
sand	31	vfs-vcrs	m	rnd
SILT AND CLAY	2			

REMARKS

color Buff Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

105

TO

110

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	30	vfp-mp	l	rnd
sand	28	vfs-vcrs	m	rnd
OTHER > gravel	8	vfp-fp	m	sb rnd
sand	31	vfs-vcrs	m	rnd
SILT AND CLAY	3			

REMARKS

color Whitish Grey
HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

110

TO

135

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	62	vfp-crp	1	sb rnd
	sand	17	ms-vcrs	m	rnd
OTHER	> gravel	14	vfp-crp	m	rnd
	sand	6	ms-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Black
HCL +

Immature

DEPTH
(FT.)

135

TO

150

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	43	vfp-crp	m	rnd
	sand	26	vfs-vcrs	m	rnd
OTHER	> gravel	9	vfp-crp	m	rnd
	sand	17	vfs-vcrs	m	rnd
SILT AND CLAY		5			

REMARKS

color Grey
HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

150

TO

170

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	25	vfp-mp	m	rnd
	sand	43	vfs-vcrs	m	sb rnd
OTHER	> gravel	3	vfp-mp	m	rnd
	sand	18	vfs-vcrs	m	rnd
SILT AND CLAY		11			

REMARKS

color Grey
HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

170

TO

200

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	58	vfp-crp	m	rnd
	sand	22	vfs-vcrs	m	sb rnd
OTHER	> gravel	10	vfp-crp	l	rnd
	sand	8	vfs-vcrs	m	sb ang
SILT AND CLAY		2			

REMARKS

color Brownish Grey
HCL +

Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

200

TO

205

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	35	vfp-mp	l	rnd
sand	9	vfs-vcrs	m	rnd
OTHER > gravel	5	vfp-fp	m	sb rnd
sand	48	vfs-vcrs	m	rnd
SILT AND CLAY	3			

REMARKS

color Greyish Brown
HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

205

TO

210

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

210

TO

245

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	16	vfp-crp	1	sb rnd
	sand	17	vfs-vcrs	m	sb rnd
OTHER	> gravel	6	vfp-crp	1	w rnd
	sand	55	vfs-vcrs	m	rnd
SILT AND CLAY		6			

REMARKS

color Brownish Tan

HCL +

Micaceous Sample interval 215'-220' missing

Immature

DEPTH
(FT.)

245

TO

265

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	15	vfp-mp	m	rnd
	sand	4	vfs-vcrs	m	rnd
OTHER	> gravel	8	vfp-mp	m	sb rnd
	sand	58	vfs-vcrs	m	rnd
SILT AND CLAY		15			

REMARKS

color Tan

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

265

TO

290

ROCK CLASSIFICATION

silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>1</u>	<u>-vfp-</u>	<u>1</u>	<u>sb ang</u>
sand	<u>5</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER > gravel	<u>1</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb ang</u>
sand	<u>64</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY	<u>29</u>			

REMARKS

color Tan
HCL +

Micaceous Lithified by silt & clay

Sample interval 280'-285' missing

Immature

DEPTH
(FT.)

290

TO

320

ROCK CLASSIFICATION

sandy Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>1</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb ang</u>
sand	<u>5</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER > gravel	<u>1</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb ang</u>
sand	<u>19</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY	<u>74</u>			

REMARKS

color Brownish Grey
HCL -

Micaceous Lithified by silt & clay

Immature

DEPTH
(FT.)

320

TO

340

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>1</u>	<u>vfp-fp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>15</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	>gravel	<u>1</u>	<u>vfp-fp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>73</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY		<u>10</u>			

REMARKS

color Greyish BuffHCL -

Micaceous

Immature

DEPTH
(FT.)

340

TO

345

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>50</u>	<u>vfp-fp</u>	<u>1</u>	<u>sb rnd-ang</u>
	sand	<u>40</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	>gravel	<u>0</u>			
	sand	<u>9</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY		<u>1</u>			

REMARKS

color GreyHCL -

Slightly Micaceous

Immature

WELL NUMBER

699-42-12

DEPTH
(FT.)

345

TO

350

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel sand	_____	_____	_____	_____
		_____	_____	_____	_____
OTHER	>gravel sand	_____	_____	_____	_____
		_____	_____	_____	_____
SILT AND CLAY		_____			

REMARKS

color
HCL

Sample missing

Total Drilled Depth reported as 350'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	gravel sand	_____	_____	_____	_____
		_____	_____	_____	_____
OTHER	gravel sand	_____	_____	_____	_____
		_____	_____	_____	_____
SILT AND CLAY		_____			

REMARKS

color
HCL

WELL NUMBER

699-42-12

DEPTH
(FT.)

345

TO

350

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	_____	_____	_____	_____
	sand	_____	_____	_____	_____
OTHER	>gravel	_____	_____	_____	_____
	sand	_____	_____	_____	_____
SILT AND CLAY		_____			

REMARKS

color
HCL

Sample missing

Total Drilled Depth reported as 350'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	gravel	_____	_____	_____	_____
	sand	_____	_____	_____	_____
OTHER	gravel	_____	_____	_____	_____
	sand	_____	_____	_____	_____
SILT AND CLAY		_____			

REMARKS

color
HCL

Depth
(ft.)

Graphic Log

Sample Description

brownish buff
light grey
buff black

Plant Coordinates

N 041994
W 042063
Altitude 600

Other Data used in
Interpretation

Driller's Log

Well 699 - 42 - 42

greyish tan
tan

greyish tan

greyish tan

greyish tan; TRACE DIATOMITE; ASH FRAGMENTS
greyish tan; TRACE DIATOMITE
greyish tan; TRACE DIATOMITE; ASH FRAGMENTS

greyish brown; TRACE DIATOMITE

greyish brown; TRACE DIATOMITE

DEPTH
(FT.)

0

TO

5

ROCK CLASSIFICATION

slightly silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	0			
sand	3	vfs-vcrs	m	rnd
OTHER > gravel	0			
sand	85	vfs-vcrs	m	sb rnd
SILT AND CLAY	12			

REMARKS

color Brownish Buff

HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

5

TO

10

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	65	vfp-crp	l	rnd
sand	21	vfs-vcrs	m	sb rnd
OTHER > gravel	5	vfp-fp	m	rnd
sand	6	vfs-vcrs	m	sb rnd
SILT AND CLAY	3			

REMARKS

color Light Grey

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

10

TO

55

ROCK CLASSIFICATION

slightly gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	8	vfp-mp	l	rnd
	sand	68	vfs-vcrs	m	rnd
OTHER	>gravel	1	vfp-fp	l	rnd
	sand	18	vfs-vcrs	m	sb rnd
SILT AND CLAY		5			

REMARKS

color Buff Black

HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

55

TO

115

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	1	vfp-fp	l	rnd
	sand	59	vfs-vcrs	m	rnd
OTHER	>gravel	1	vfp-fp	l	rnd
	sand	29	vfs-vcrs	m	rnd
SILT AND CLAY		10			

REMARKS

color Greyish Buff

HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

115

TO

125

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	8	vfp-mp	l	sb rnd
	sand	42	vfs-vcrs	m	rnd
OTHER	> gravel	8	vfp-mp	l	sb rnd
	sand	38	vfs-vcrs	m	rnd
SILT AND CLAY		4			

REMARKS

color Whitish Buff
HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

125

TO

135

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>40</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>15</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	> gravel	<u>18</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>25</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		2			

REMARKS

color Whitish Buff
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

135

TO

140

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	20	vfp-crp	1	rnd
	sand	52	ms-vcrs	m	sb rnd
OTHER	>gravel	15	vfp-crp	1	w rnd
	sand	13	ms-vcrs	m	sb rnd
SILT AND CLAY		0			

REMARKS

color Greyish Black
HCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

140

TO

185

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	58	vfp-crp	1	rnd
	sand	21	ms-vcrs	m	sb rnd
OTHER	>gravel	19	vfp-crp	1	w rnd
	sand	2	ms-vcrs	m	sb rnd
SILT AND CLAY		0			

REMARKS

color Black
HCL -

Immature

DEPTH
(FT.)

185

TO

195

ROCK CLASSIFICATION

gravelly Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>13</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb ang</u>
	sand	<u>8</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER	> gravel	<u>13</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb ang</u>
	sand	<u>3</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>63</u>			

REMARKS

color Grevish Tan
HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

195

TO

200

ROCK CLASSIFICATION

slightly gravelly Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>3</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb rnd</u>
	sand	<u>5</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb ang</u>
OTHER	> gravel	<u>3</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb rnd</u>
	sand	<u>5</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>84</u>			

REMARKS

color Tan
HCL +

Slightly Micaceous

Immature

WELL NUMBER

699-42-42

DEPTH
(FT.)

200

TO

225

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	23	vfp-mp	m	w rnd
	sand	16	vfs-vcrs	m	sb ang
OTHER	> gravel	23	vfp-mp	m	w rnd
	sand	27	vfs-vcrs	l	sb rnd
SILT AND CLAY		11			

REMARKS

color Greyish Tan

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

225

TO

230

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color

HCL

Sample missing

WELL NUMBER

699-42-42

DEPTH (FT.) 230 TO 235 ROCK CLASSIFICATION silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>30</u>	<u>vfp-mp</u>	<u>m</u>	<u>w rnd</u>
	sand	<u>16</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	>gravel	<u>30</u>	<u>vfp-mp</u>	<u>m</u>	<u>w rnd</u>
	sand	<u>20</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>4</u>			

REMARKS

color Greyish Tan
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH (FT.) 235 TO 240 ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	sand	<u> </u>	<u> </u>	<u> </u>	<u> </u>
OTHER	>gravel	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	sand	<u> </u>	<u> </u>	<u> </u>	<u> </u>
SILT AND CLAY		<u> </u>			

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

240

TO

245

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	25	vfp-mp	1	sb ang
	sand	19	vfs-vcrs	1	sb ang
OTHER	> gravel	0			
	sand	41	vfs-vcrs	m	rnd
SILT AND CLAY		15			

REMARKS

color Greyish Tan

HCL

-

Slightly Diatomaceous (pebbles present)

Slightly Micaceous

Ash (fragments present)

Lithified by silt & clay

Immature

DEPTH
(FT.)

245

TO

250

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

250

TO

255

ROCK CLASSIFICATION

gravelly silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	6	vfp-mp	1	rnd
sand	6	vfs-vcrs	1	sb rnd
OTHER > gravel	6	vfp-mp	1	rnd
sand	55	vfs-vcrs	m	sb rnd
SILT AND CLAY	27			

REMARKS

color Greyish Tan
HCL -

Slightly Diatomaceous (fragments present)

Slightly Micaceous

Unfrosted Quartz

Immature

DEPTH
(FT.)

255

TO

265

ROCK CLASSIFICATION

gravelly sandy Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	10	vfp-mp	1	sb ang
sand	4	vfs-vcrs	m	sb rnd
OTHER > gravel	10	vfp-mp	1	sb ang
sand	36	vfs-vcrs	m	sb rnd
SILT AND CLAY	40			

REMARKS

color Greyish Tan
HCL -

Slightly Diatomaceous (fragments present)

Slightly Micaceous

Ash (fragments present)

Immature

DEPTH
(FT.)

265

TO

290

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	17	vfp-mp	l	sb rnd
	sand	24	vfs-vcrs	m	sb ang
OTHER	>gravel	2	vfp-mp	l	sb rnd
	sand	37	vfs-vcrs	m	sb rnd
SILT AND CLAY		20			

REMARKS

color Greyish BrownHCL -

Slightly Diatomaceous (pebbles & sand present)

Slightly Micaceous

Immature

DEPTH
(FT.)

290

TO

300

ROCK CLASSIFICATION

gravelly silty Sand
& Basalt Flow

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	14	vfp-mp, vcrp	l	w rnd-ang
	sand	40	vfs-vcrs	m	sb ang
OTHER	>gravel	14	vfp-mp	l	w rnd
	sand	14	vfs-vcrs	m	rnd
SILT AND CLAY		18			

REMARKS

color Reddish GreyHCL -

Slightly Diatomaceous (sand present)

Immature

WELL NUMBER

699-42-42

DEPTH
(FT.)

300

TO

302

ROCK CLASSIFICATION

Basalt Flow

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	0			
	sand	2	vfs-vcrs	m	rnd
OTHER	> gravel	0			
	sand	1	vfs-vcrs	m	rnd
SILT AND CLAY		2			

REMARKS

color Reddish Grey

HCL -

Slightly Diatomaceous (sand present)

Immature

DEPTH
(FT.)

302

TO

305

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

305

TO

310

ROCK CLASSIFICATION

Basalt Flow

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	0			
OTHER > gravel	0			
sand	0			
SILT AND CLAY	0			

REMARKS

color
HCL

Black

-

DEPTH
(FT.)

310

TO

315

ROCK CLASSIFICATION

Basalt Flow or Ash Layer

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	0			
OTHER > gravel	0			
sand	0			
SILT AND CLAY	0			

REMARKS

color
HCL

Greyish Black

-

Total Drilled Depth reported as 315'

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 043200

W 088500

Altitude 642

Other Data used in
Interpretation

(1) Driller's Log

(2) Descriptive Log from
Newcomb, et al, 1972
p. 64

Well 699 - 43 - 89

brownish tan

brownish tan

greyish tan

greyish buff

greyish buff

WELL NUMBER

WELL NUMBER

699-43-89

DEPTH (FT.) 29 TO 44 ROCK CLASSIFICATION sandy Silt

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand	0 7	vfs-vcrs	m	sb rnd
OTHER > gravel sand	0 18	vfs-vcrs	m	rnd
SILT AND CLAY	75			

REMARKS

color Brownish Tan
HCL +

Slightly Micaceous

Immature

DEPTH (FT.) 0 TO 17 ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand				
OTHER > gravel sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH (FT.) 44 TO 89 ROCK CLASSIFICATION silty sandy Grave

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand	55 20	vfp-crp vfs-vcrs	m m	sb rnd sb rnd
OTHER > gravel sand	0 18	vfs-vcrs	m	rnd
SILT AND CLAY	7			

REMARKS

color Greyish Tan
HCL +

Slightly Micaceous

Immature

DEPTH (FT.) 17 TO 29 ROCK CLASSIFICATION sandy Silt

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand	2 5	vfp-fp vfs-vcrs	l m	sb rnd rnd
OTHER > gravel sand	0 15	vfs-vcrs	m	rnd
SILT AND CLAY	78			

REMARKS

color Brownish Tan
HCL +

Slightly Micaceous

Immature

WELL NUMBER

699-43-89

DEPTH
(FT.)

89

TO

101

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>22</u>	<u>vfp-crp</u>	<u>m</u>	<u>sb rnd</u>
	sand	<u>23</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	>gravel	<u>0</u>	<u></u>	<u></u>	<u></u>
	sand	<u>47</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>8</u>			

REMARKS

color Greyish BuffHCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

101

TO

113

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>2</u>	<u>vfp-fp</u>	<u>l</u>	<u>sb ang</u>
	sand	<u>20</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	>gravel	<u></u>	<u></u>	<u></u>	<u></u>
	sand	<u>73</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>5</u>			

REMARKS

color Greyish BuffHCL +

Slightly Micaceous

Frosted Quartz

Mature

WELL NUMBER

699-43-89

DEPTH
(FT.)

113

TO

306

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	_____	_____	_____	_____
sand	_____	_____	_____	_____
OTHER > gravel	_____	_____	_____	_____
sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color
HCL

Sample missing

Total Drilled Depth reported as 306'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	_____	_____	_____	_____
sand	_____	_____	_____	_____
OTHER > gravel	_____	_____	_____	_____
sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color
HCL

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 042979

W 104298

Altitude 764

Other Data used in
Interpretation

(1) Driller's Log

(2) E-Log

Well 699 - 43 - 104

greyish brown

black

greyish brown

greyish brown

greyish tan

tan

brownish grey

brownish grey

greyish tan

greyish tan

greyish tan

greyish tan

greyish brown

yellowish grey-brown

greyish yellowed tan

greyish tan

greyish brown

greyish tan

whitish tan
yellowish grey

DEPTH (FT.) 0 TO 25 ROCK CLASSIFICATION silty sandy Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	44	vfp-vcrp	m	sb rnd
sand	36	vfs-vcrs	m	sb ang
OTHER > gravel	4	vfp-mp	m	rnd
sand	8	vfs-vcrs	m	sb rnd
SILT AND CLAY	8			

REMARKS

color Greyish Brown
HCL + (0'-10'), - (10'-25')

Slightly Micaceous

Immature

DEPTH (FT.) 25 TO 30 ROCK CLASSIFICATION Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	99	vfp-crp	m	sb rnd
sand	0			
OTHER > gravel	1	vfp-fp	m	rnd
sand	0			
SILT AND CLAY	0			

REMARKS

color Black
HCL -

Mature

DEPTH
(FT.)

30

TO

110

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	55	vfp-crp	l	sb rnd
	sand	25	vfs-vcrs	m	sb ang
OTHER	>gravel	4	vfp-mp	m	w rnd
	sand	8	vfs-vcrs	m	rnd
SILT AND CLAY		8			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous Compacted by silt & clay

Immature

DEPTH
(FT.)

110

TO

115

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	58	vfp-mp	l	sb rnd
	sand	23	vfs-vcrs	m	rnd
OTHER	>gravel	3	vfp-mp	m	w rnd
	sand	6	vfs-vcrs	m	rnd
SILT AND CLAY		10			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

115

TO

140

ROCK CLASSIFICATION

silty Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	35	vfp-mp	l	rnd
	sand	16	vfs-vcrs	m	rnd
OTHER	>gravel	0			
	sand	7	vfs-vcrs	m	rnd
SILT AND CLAY		42			

REMARKS

color Greyish Tan
HCL +

Micaceous Lithified by silt, clay & CaCO₃

Immature

DEPTH
(FT.)

140

TO

150

ROCK CLASSIFICATION

gravelly sandy Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	20	vfp-mp	l	rnd
	sand	3	vfs-vcrs	m	sb rnd
OTHER	>gravel	5	vfp-mp	l	w rnd
	sand	23	vfs-vcrs	m	rnd
SILT AND CLAY		49			

REMARKS

color Tan
HCL -

Micaceous Lithified by silt & clay

Immature

DEPTH
(FT.)

150

TO

230

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	29	vfp-mp	l	rnd
	sand	46	vfs-vcrs	m	sb rnd
OTHER	>gravel	5	vfp-mp	l	w rnd
	sand	12	vfs-vcrs	m	w rnd
SILT AND CLAY		8			

REMARKS

color Brownish GreyHCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

230

TO

245

ROCK CLASSIFICATION

Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	75	vfp-mp	l	rnd
	sand	6	vfs-vcrs	m	sb rnd
OTHER	>gravel	15	vfp-mp	l	w rnd
	sand	3	vfs-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Brownish GreyHCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

245

TO

270

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	30	vfp-mp	l	rnd
	sand	36	vfs-vcrs	m	sb rnd
OTHER	>gravel	5	vfp-mp	m	rnd
	sand	19	vfs-vcrs	m	rnd
SILT AND CLAY		10			

REMARKS

color Greyish Tan

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

270

TO

280

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	60	vfp-crp	l	rnd
	sand	12	vfs-vcrs	l	sb rnd
OTHER	>gravel	10	vfp-crp	m	w rnd
	sand	14	vfs-vcrs	m	rnd
SILT AND CLAY		4			

REMARKS

color Greyish Tan

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

280

TO

285

ROCK CLASSIFICATION

silty sandy Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	30	vfp-mp	l	rnd
sand	16	vfs-vcrs	m	sb rnd
OTHER > gravel	5	vfp-mp	m	rnd
sand	42	vfs-vcrs	m	rnd
SILT AND CLAY	7			

REMARKS

color Greyish Tan

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

285

TO

290

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

290

TO

300

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	45	vfp-vcrp	1	w rnd
	sand	12	vfs-vcrs	1	sb rnd
OTHER	> gravel	8	vfp-mp	1	w rnd
	sand	30	vfs-vcrs	m	rnd
SILT AND CLAY		5			

REMARKS

color Greyish Tan
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

300

TO

320

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	17	vfp-mp	m	rnd
	sand	31	vfs-vcrs	m	sb rnd
OTHER	> gravel	7	vfp-crps	m	rnd
	sand	34	vfs-vcrs	m	rnd
SILT AND CLAY		11			

REMARKS

color Greyish Brown
HCL +

Slightly Micaceous Sample interval 310'-315' missing

Immature

DEPTH
(FT.)

320

TO

330

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	35	vfp-mp	l	rnd
	sand	29	vfs-vcrs	m	sb rnd
OTHER	> gravel	0			
	sand	20	vfs-vcrs	m	sb rnd
SILT AND CLAY		16			

REMARKS

color Yellowish-Grey Brown
HCL +

Caliche (fragments present) Slightly Micaceous

Lithified by silt, clay & CaCO₃

Immature

DEPTH
(FT.)

330

TO

345

ROCK CLASSIFICATION

gravelly sandy silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	30	vfp-mp	l	rnd
	sand	28	vfs-vcrs	m	w rnd
OTHER	> gravel	0			
	sand	7	vfs-vcrs	m	rnd
SILT AND CLAY		35			

REMARKS

color Greyish Yellowed Tan
HCL -

Slightly Micaceous Lithified by silt & clay

Immature

DEPTH
(FT.)

345

TO

380

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	24	vfp-crp	l	rnd
	sand	45	vfs-vcrs	m	sb rnd
OTHER	> gravel	1	vfp-mp	m	rnd
	sand	19	vfs-vcrs	m	rnd
SILT AND CLAY		11			

REMARKS

color Greyish Tan
HCL + (345'-360'), - (360'-380')

Slightly Micaceous

Immature

DEPTH
(FT.)

380

TO

440

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	15	vfp-mp	l	rnd
	sand	38	vfs-vcrs	m	rnd
OTHER	> gravel	0			
	sand	30	vfs-vcrs	m	rnd
SILT AND CLAY		17			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous Lithified (?)

Immature

DEPTH
(FT.)

440

TO

455

ROCK CLASSIFICATION

silty Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	20	vfs-vcrs	l	sb ang
OTHER > gravel	0			
sand	60	vfs-vcrs	m	rnd
SILT AND CLAY	20			

REMARKS

color Greyish Tan

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

455

TO

460

ROCK CLASSIFICATION

sandy Silt

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	5	vfs-crs	l	ang
OTHER > gravel	0			
sand	30	vfs-crs	m	sb rnd
SILT AND CLAY	65			

REMARKS

color Whitish Tan

HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

460

TO

464

ROCK CLASSIFICATION

gravelly sandy Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	15	-vcrp-	m	sb rnd
	sand	4	vfs-crs	l	ang
OTHER	>gravel	0			
	sand	21	vfs-crs	m	sb rnd
SILT AND CLAY		60			

REMARKS

color Yellowish Grey
HCL -

Slightly Micaceous

Immature

Total Drilled Depth reported as 464'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel				
	sand				
OTHER	>gravel				
	sand				
SILT AND CLAY					

REMARKS

color
HCL

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 044053

W 063751

Altitude 724

Other Data used in
Interpretation

Driller's Log

Well 699 - 44 - 64

DEPTH
(FT.)

0

TO

60

ROCK CLASSIFICATION

Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	58	vfp-smcb	l	w rnd
sand	6	vfs-vcrs	m	rnd
OTHER > gravel	24	vfp-smcb	l	w rnd
sand	11	vfs-vcrs	m	ang
SILT AND CLAY	1			

REMARKS

color Brownish Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Sample intervals 25'-30' & 45'-55' missing

Immature -

DEPTH
(FT.)

60

TO

70

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	40	vfp-crp	l	w rnd
sand	14	vfs-vcrs	m	rnd
OTHER > gravel	15	vfp-mp	m	w rnd
sand	28	vfs-vcrs	m	rnd
SILT AND CLAY	3			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

70

TO

90

ROCK CLASSIFICATION

gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	15	vfp-mp	1	rnd
sand	14	vfs-vcrs	1	sb ang
OTHER > gravel	4	vfp-mp	1	rnd
sand	65	vfs-vcrs	m	sb ang
SILT AND CLAY	2			

REMARKS

color Greyish Buff
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

90

TO

95

ROCK CLASSIFICATION

Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	3	vfs-vcrs	m	sb rnd
OTHER > gravel	0			
sand	94	vfs-vcrs	m	sb ang
SILT AND CLAY	3			

REMARKS

color Brownish Tan
HCL +

Slightly Micaceous

Submature

DEPTH
(FT.)

95

TO

115

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	26	vfp-crp	1	rnd
	sand	9	fs-vcrs	1	sb rnd
OTHER	>gravel	11	vfp-mp	m	rnd
	sand	54	fs-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color
HCL

Buff Grey

-

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

115

TO

120

ROCK CLASSIFICATION

slightly gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	6	vfp-mp	1	rnd
	sand	11	vfs-vcrs	m	rnd
OTHER	>gravel	4	vfp-mp	m	w rnd
	sand	79	vfs-vcrs	m	ang
SILT AND CLAY		0			

REMARKS

color
HCL

Brownish Buff

-

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

120

TO

125

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>2</u>	<u>vfp-fp</u>	<u>m</u>	<u>sb rnd</u>
sand	<u>13</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER > gravel	<u>0</u>			
sand	<u>78</u>	<u>vfs-vcrs</u>	<u>h</u>	<u>rnd</u>
SILT AND CLAY	<u>7</u>			

REMARKS

color
HCL

Buff Tan

Slightly Micaceous Frosted Quartz

Submature

DEPTH
(FT.)

125

TO

130

ROCK CLASSIFICATION

slightly gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>6</u>	<u>vfp-mp</u>	<u>l</u>	<u>rnd</u>
sand	<u>8</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER > gravel	<u>4</u>	<u>vfp-mp</u>	<u>m</u>	<u>w rnd</u>
sand	<u>81</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY	<u>1</u>			

REMARKS

color
HCL

Greyish Buff

-

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

130

TO

140

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	16	vfp-mp	1	sb rnd
	sand	17	vfs-vcrs	1	sb rnd
OTHER	> gravel	0			
	sand	63	vfs-vcrs	m	sb rnd
SILT AND CLAY		4			

REMARKS

color Brownish Buff

HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

140

TO

150

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	40	vfp-mp	1	w rnd
	sand	13	vfs-vcrs	m	rnd
OTHER	>gravel	20	vfp-fp	m	rnd
	sand	26	vfs-vcrs	m	sb rnd
SILT AND CLAY		1			

REMARKS

color Grey

HCL -

Caliche (sand present) Slightly Micaceous

Immature

DEPTH
(FT.)

150

TO

180

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel sand	25	vfp-mp	1	rnd
		11	vfs-vcrs	1	sb rnd
OTHER	>gravel sand	5	vfp-fp	m	rnd
		56	vfs-vcrs	m	sb ang
SILT AND CLAY		3			

REMARKS

color Brownish Grey Buff
HCL +

Slightly Diatomaceous (pebbles) Slightly Micaceous Unfrosted Quartz
Immature

DEPTH
(FT.)

180

TO

260

ROCK CLASSIFICATION

slightly gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel sand	4	vfp-mp	1	rnd
		11	fs-vcrs	m	sb rnd
OTHER	>gravel sand	3	vfp-mp	1	rnd
		82	fs-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Greyish Buff
HCL -

Caliche (pebbles & sand present) Slightly Micaceous Unfrosted Quartz
Submature

DEPTH
(FT.)

260

TO

265

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>25</u>	<u>vfp-crp</u>	<u>1</u>	<u>w rnd</u>
	sand	<u>3</u>	<u>fs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER	>gravel	<u>45</u>	<u>vfp-crp</u>	<u>1</u>	<u>w rnd</u>
	sand	<u>27</u>	<u>fs-vcrs</u>	<u>1</u>	<u>ang</u>
SILT AND CLAY		<u>0</u>			

REMARKS

color Greyish BuffHCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

265

TO

270

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>30</u>	<u>vfp-vcrp</u>	<u>?</u>	<u>?</u>
	sand	<u>3</u>	<u>fs-vcrs</u>	<u>m</u>	<u>sb ang</u>
OTHER	>gravel	<u>50</u>	<u>vfp-vcrp</u>	<u>?</u>	<u>?</u>
	sand	<u>17</u>	<u>fs-vcrs</u>	<u>1</u>	<u>ang</u>
SILT AND CLAY		<u>0</u>			

REMARKS

color Brownish GreyHCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

270

TO

300

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	48	vfp-smcb	l	w rnd
	sand	7	vfs-vcrs	m	sb rnd
OTHER	> gravel	31	vfp-crp	l	w rnd
	sand	13	vfs-vcrs	m	sb ang
SILT AND CLAY		1			

REMARKS

color Tan Grey
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

300

TO

330

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	33	vfp-vcrp	l	w rnd
	sand	5	vfs-vcrs	m	sb rnd
OTHER	> gravel	42	vfp-smcb	l	w rnd
	sand	15	vfs-vcrs	m	w rnd
SILT AND CLAY		5			

REMARKS

color Greyish Tan
HCL -

Slightly Micaceous Frosted Quartz Sample interval 315'-320' missing

Immature

DEPTH
(FT.)TO
330 335

ROCK CLASSIFICATION

Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	33	vfp-vcrp	?	?
sand	1	vfs-vcrs	m	sb ang
OTHER > gravel	65	vfp-crp	?	?
sand	1	vfs-vcrs	m	sb rnd
SILT AND CLAY	0			

REMARKS

color Buff Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Submature

DEPTH
(FT.)TO
335 350

ROCK CLASSIFICATION

sandy Gravel

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	23	vfp-vcrp	?	?
sand	2	fs-vcrs	m	sb rnd
OTHER > gravel	43	vfp-crp	m	?
sand	32	fs-vcrs	l	ang
SILT AND CLAY	0			

REMARKS

color Greyish Buff
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

350

TO

360

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	10	vfp-crp	m	w rnd
	sand	8	fs-vcrs	l	rnd
OTHER	> gravel	10	vfp-crp	m	w rnd
	sand	72	fs-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Reddish Buff

HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

360

TO

365

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color

HCL

Sample missing

WELL NUMBER

699-44-64

DEPTH
(FT.)

365

TO

370

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	35	vfp-crp	l	w rnd
sand	7	vfs-vcrs	m	rnd
OTHER > gravel	0			
sand	32	vfs-vcrs	m	sb ang
SILT AND CLAY	26			

REMARKS

color
HCL

Tan

+

Slightly Micaceous Compacted by silt & clay

Immature

DEPTH
(FT.)

370

TO

375

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

375

TO

400

ROCK CLASSIFICATION

Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	43	vfp-crp	l	w rnd
	sand	4	vfs-vcrs	m	sb ang
OTHER	> gravel	41	vfp-crp	l	w rnd
	sand	11	vfs-vcrs	m	sb ang
SILT AND CLAY		1			

REMARKS

color Greyish Brown Buff
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

400

TO

415

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	23	vfp-crp	m	sb rnd
	sand	23	vfs-vcrs	m	sb ang
OTHER	> gravel	20	vfp-mp	m	w rnd
	sand	34	vfs-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Buff Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

415

TO

425

ROCK CLASSIFICATION

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER > gravel
sand

SILT AND CLAY

REMARKS

color

HCL

Sample missing

DEPTH
(FT.)

425

TO

435

ROCK CLASSIFICATION

sandy Gravel

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESS

15

vfp-crp

m

w rnd

5

vfs-vcrs

l

sb rnd

OTHER > gravel
sand

62

vfp-smcb

l

w rnd

17

vfs-vcrs

m

sb ang

SILT AND CLAY

1

REMARKS

color

HCL

Greyish Buff

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

435

TO

440

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	20	vfp-mp	1	rnd
	sand	36	vfs-vcrs	m	sb rnd
OTHER	> gravel	10	vfp-crp	1	rnd
	sand	23	vfs-vcrs	m	sb ang
SILT AND CLAY		1			

REMARKS

color Grey

HCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

440

TO

445

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	40	vfp-fp	m	sb rnd
	sand	42	vfs-vcrs	m	sb rnd
OTHER	> gravel	0			
	sand	14	vfs-vcrs	m	ang
SILT AND CLAY		4			

REMARKS

color Greyish Black

HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

445

TO

450

ROCK CLASSIFICATION

Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	0			
sand	5	vfs-crs	m	rnd
OTHER > gravel	0			
sand	7	vfs-crs	m	sb rnd
SILT AND CLAY	88			

REMARKS

color Dark Brown

HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

450

TO

452

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color

HCL

Sample missing

Total Drilled Depth reported as 452'

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 45 - 69

N 045003
W 069428
Altitude 723

Other Data used in
Interpretation

Driller's Log

WELL NUMBER

699-45-69

DEPTH
(FT.)

0

TO

5

ROCK CLASSIFICATION

silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	0			
	sand	30	vfs-vcrs	m	rnd
OTHER	> gravel	0			
	sand	45	vfs-vcrs	m	sb rnd
SILT AND CLAY		25			

REMARKS

color Greyish Tan

HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

5

TO

15

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	40	vfp-mp	l	sb rnd
	sand	14	vfs-vcrs	m	sb rnd
OTHER	> gravel	25	vfp-mp	l	w rnd
	sand	18	vfs-vcrs	m	rnd
SILT AND CLAY		3			

REMARKS

color Greyish Tan

HCL +

Slightly Micaceous Unfrosted Quartz

Immature

WELL NUMBER

699-45-69

DEPTH
(FT.)

15

TO

20

ROCK CLASSIFICATION

gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	8	vfp-fp	1	sb rnd
sand	77	vfs-vcrs	m	rnd
OTHER > gravel	7	vfp-fp	1	w rnd
sand	4	vfs-vcrs	m	rnd
SILT AND CLAY	4			

REMARKS

color Tanned Grey
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

20

TO

35

ROCK CLASSIFICATION

sandy Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	2	vfp-crp	1	rnd
sand	10	vfs-vcrs	m	rnd
OTHER > gravel	1	vfp-crp	1	rnd
sand	15	vfs-vcrs	m	rnd
SILT AND CLAY	72			

REMARKS

color Tan
HCL +

Micaceous

Immature

DEPTH
(FT.)

35

TO

75

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	38	vfp-mp	l	rnd
sand	19	vfs-vcrs	m	rnd
OTHER > gravel	10	vfp-mp	l	w rnd
sand	31	vfs-vcrs	m	rnd
SILT AND CLAY	2			

REMARKS

color
HCL

Buff Grey

+ (35'-55'), - (55'-75')

Slightly Micaceous

Frosted Quartz

Immature

DEPTH
(FT.)

75

TO

100

ROCK CLASSIFICATION

slightly silty
slightly gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	7	vfp-crp	m	sb rnd
sand	10	vfs-vcrs	m	rnd
OTHER > gravel	2	vfp-crp	m	sb rnd
sand	67	vfs-vcrs	m	rnd
SILT AND CLAY	14			

REMARKS

color
HCL

Greyish Tan

- (75'-80'), + (80'-100')

Micaceous

Frosted Quartz

Immature

WELL NUMBER

699-45-69

DEPTH
(FT.)

100

TO

150

ROCK CLASSIFICATION

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER > gravel
sand

SILT AND CLAY

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

150

TO

180

ROCK CLASSIFICATION

silty sandy Gravel

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESS

24

vfp-crp

l

rnd

13

vfs-vcrs

m

rnd

OTHER > gravel
sand

11

vfp-crp

m

w rnd

45

vfs-vcrs

m

rnd

SILT AND CLAY

7

REMARKS

color
HCL

Tanned Grey

-

Slightly Micaceous

Frosted Quartz

Sample interval 165'-170' missing

Immature

DEPTH
(FT.)

180

TO

220

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	28	vfp-mp	l	sb rnd
	sand	17	vfs-vcrs	m	sb rnd
OTHER	> gravel	28	vfp-mp	l	sb rnd
	sand	20	vfs-vcrs	m	sb rnd
SILT AND CLAY		7			

REMARKS

color Greyish Tan
HCL -

Slightly Micaceous Sample intervals 195'-200' & 205'-210' missing

Immature

DEPTH
(FT.)

220

TO

235

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	2	vfp-crp	l	sb rnd
	sand	19	vfs-vcrs	m	sb rnd
OTHER	> gravel	1	vfp-crp	l	sb rnd
	sand	68	vfs-vcrs	m	w rnd
SILT AND CLAY		10			

REMARKS

color Greyish Tan
HCL -

Micaceous Frosted Quartz

Immature

DEPTH (FT.)	<div style="border: 1px solid black; padding: 2px 10px;">235</div>	TO	<div style="border: 1px solid black; padding: 2px 10px;">255</div>	ROCK CLASSIFICATION
				<div style="border: 1px solid black; padding: 2px 10px;">silty sandy Gravel</div>

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>18</u>	<u>vfp-mp</u>	<u>l</u>	<u>w rnd</u>
sand	<u>7</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER > gravel	<u>15</u>	<u>vfp-mp</u>	<u>l</u>	<u>w rnd</u>
sand	<u>52</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY	<u>8</u>			

REMARKS

color Greyish Tan
HCL + (235'-245'), - (245'-255')

Micaceous Frosted Quartz Lithified by silt & clay

Immature

DEPTH (FT.)	<div style="border: 1px solid black; padding: 2px 10px;">255</div>	TO	<div style="border: 1px solid black; padding: 2px 10px;">368</div>	ROCK CLASSIFICATION
				<div style="border: 1px solid black; padding: 2px 10px;">silty sandy Gravel</div>

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>19</u>	<u>vfp-crp</u>	<u>l</u>	<u>w rnd</u>
sand	<u>6</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER > gravel	<u>19</u>	<u>vfp-crp</u>	<u>l</u>	<u>w rnd</u>
sand	<u>47</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY	<u>9</u>			

REMARKS

color Greyish Tan
HCL - (255'-315'), + (315'-320'), - (320'-368')

Slightly Micaceous Frosted Quartz

Immature

Total Drilled Depth reported as 368'

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 046093

W 020629

Altitude 520

Other Data used in
Interpretation

(1) Driller's Log

(2) E-Log

Well 699 - 46 - 21

tan

brownish tan

brownish tan

greyish buff

grey

grey

greyish buff

brownish grey

brownish buff

brownish tan

brownish tan

whitish tan

greyish buff

DEPTH
(FT.)

0

TO

80

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	53	vfp-crp	l	w rnd
sand	34	vfs-vcrs	m	sb rnd
OTHER > gravel	7	vfp-crp	m	w rnd
sand	4	vfs-vcrs	m	sb ang
SILT AND CLAY	2			

REMARKS

color
HCL

Brownish Black

+ (0'-10'), - (10'-55'), + (55'-60'), - (60'-65'),
+ (65'-80')

Caliche (pebbles & sand present between 75' & 80') Slightly Micaceous

Unfrosted Quartz

Immature

DEPTH
(FT.)

80

TO

100

ROCK CLASSIFICATION

Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	3	vfp-mp	l	sb rnd
sand	3	vfs-crs	l	rnd
OTHER > gravel	0			
sand	12	vfs-crs	h	sb rnd
SILT AND CLAY	82			

REMARKS

color
HCL

Tan

+

Slightly Micaceous Compacted (?)

Immature

DEPTH
(FT.)

100

TO

125

ROCK CLASSIFICATION

slightly gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	3	vfp-mp	1	rnd
sand	8	vfs-crs	m	rnd
OTHER > gravel	3	vfp-mp	1	rnd
sand	77	vfs-crs	m	sb ang
SILT AND CLAY	9			

REMARKS

color Brownish Tan
HCL +

Abundant Caliche Slightly Micaceous Unfrosted Quartz

Lithified by silt, clay & CaCO₃

Immature

DEPTH
(FT.)

125

TO

130

ROCK CLASSIFICATION

slightly silty gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	15	vfp-mp	1	w rnd
sand	13	vfs-vcrs	1	rnd
OTHER > gravel	15	vfp-mp	1	w rnd
sand	49	vfs-vcrs	m	sb rnd
SILT AND CLAY	8			

REMARKS

color Brownish Tan
HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

130

TO

140

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	35	vfp-mp	1	w rnd
	sand	9	vfs-vcrs	1	sb rnd
OTHER	>gravel	25	vfp-mp	m	w rnd
	sand	28	vfs-vcrs	m	sb ang
SILT AND CLAY		3			

REMARKS

color Greyish Buff
HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

140

TO

145

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	35	vfp-mp	1	w rnd
	sand	5	ms-vcrs	1	sb ang
OTHER	>gravel	45	vfp-mp	m	w rnd
	sand	15	ms-vcrs	m	sb rnd
SILT AND CLAY		0			

REMARKS

color Grey
HCL -

Immature

DEPTH
(FT.)

145

TO

150

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>20</u>	<u>vfp-mp</u>	<u>1</u>	<u>w rnd</u>
sand	<u>12</u>	<u>ms-vcrs</u>	<u>1</u>	<u>sb ang</u>
OTHER > gravel	<u>20</u>	<u>vfp-mp</u>	<u>m</u>	<u>w rnd</u>
sand	<u>48</u>	<u>ms-vcrs</u>	<u>h</u>	<u>sb rnd</u>
SILT AND CLAY	<u>0</u>			

REMARKS

color GreyHCL -

Frosted Quartz

Immature

DEPTH
(FT.)

150

TO

165

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>25</u>	<u>vfp-mp</u>	<u>1</u>	<u>w rnd</u>
sand	<u>11</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER > gravel	<u>25</u>	<u>vfp-mp</u>	<u>1</u>	<u>w rnd</u>
sand	<u>35</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY	<u>4</u>			

REMARKS

color Greyish BuffHCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

165

TO

195

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>37</u>	<u>vfp-crp</u>	<u>1</u>	<u>w rnd</u>
sand	<u>3</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER > gravel	<u>39</u>	<u>vfp-crp</u>	<u>m</u>	<u>w rnd</u>
sand	<u>20</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY	<u>1</u>			

REMARKS

color Brownish Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

195

TO

265

ROCK CLASSIFICATION

gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>11</u>	<u>vfp-smcb</u>	<u>1</u>	<u>w rnd</u>
sand	<u>9</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER > gravel	<u>10</u>	<u>vfp-crp</u>	<u>1</u>	<u>w rnd</u>
sand	<u>67</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY	<u>3</u>			

REMARKS

color Brownish Buff
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

265

TO

275

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	8	-mp-	1	rnd
	sand	3	vfs-vcrs	1	sb rnd
OTHER	>gravel	8	-mp-	1	rnd
	sand	56	vfs-vcrs	m	sb rnd
SILT AND CLAY		25			

REMARKS

color Brownish Tan

HCL -

Slightly Micaceous

Frosted Quartz

Lithified by silt & clay

Immature

DEPTH
(FT.)

275

TO

300

ROCK CLASSIFICATION

sandy Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	<u>1</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>3</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER	>gravel	<u>1</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
	sand	<u>36</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>59</u>			

REMARKS

color Brownish Tan

HCL -

Slightly Micaceous

Lithified by silt & clay

Immature

DEPTH
(FT.)

300

TO

315

ROCK CLASSIFICATION

silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	<u>>gravel</u>	<u>1</u>	<u>vfp-mp</u>	<u>m</u>	<u>rnd</u>
	<u>sand</u>	<u>2</u>	<u>vfs-vcrs</u>	<u>l</u>	<u>sb rnd</u>
OTHER	<u>>gravel</u>	<u>0</u>			
	<u>sand</u>	<u>70</u>	<u>vfs-vcrs</u>	<u>h</u>	<u>sb ang</u>
SILT AND CLAY		27			

REMARKS

color
HCL

Tan

-

Slightly Micaceous

Frosted Quartz

Lithified by silt & clay

Immature

DEPTH
(FT.)

315

TO

330

ROCK CLASSIFICATION

Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>1</u>	<u>vfp-mp</u>	<u>m</u>	<u>rnd</u>
	sand	<u>4</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	> gravel	<u>0</u>			
	sand	<u>15</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>80</u>			

REMARKS

color
HCL

Whitish Tan

-

Slightly Micaceous

Lithified by silt & clay

Immature

WELL NUMBER

699-46-21

DEPTH
(FT.)

330

TO

336

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	10	vfp-crp	1	w rnd
sand	13	ms-vcrs	m	rnd
OTHER > gravel	25	vfp-crp	1	w rnd
sand	52	ms-vcrs	m	sb ang
SILT AND CLAY	0			

REMARKS

color Greyish Buff
HCL -

Slightly Micaceous Unfrosted Quartz Sample interval 335'-336'
Immature missing

Total Drilled Depth reported as 336'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 047000

W 046000

Altitude 578

Other Data used in
Interpretation

Driller's Log

Well 699 - 47 - 46

DEPTH
(FT.)

0

TO

45

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	36	vfp-crp	m	rnd
	sand	19	vfs-vcrs	m	rnd
OTHER	>gravel	11	vfp-crp	m	rnd
	sand	16	vfs-vcrs	m	rnd
SILT AND CLAY		18			

REMARKS

color Grey
HCL - (0'-15'), + (15'-45')

Slightly Micaceous

Immature

DEPTH
(FT.)

45

TO

110

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	40	vfp-smcb	m	rnd
	sand	10	vfs-vcrs	m	sb rnd
OTHER	>gravel	40	vfp-smcb	l	w rnd
	sand	8	vfs-vcrs	m	rnd
SILT AND CLAY		2			

REMARKS

color Grey
HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

110

TO

165

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	45	vfp-smcb	m	rnd
	sand	18	vfs-vcrs	m	sb rnd
OTHER	> gravel	30	vfp-smcb	l	w rnd
	sand	5	vfs-vcrs	m	sb rnd
SILT AND CLAY		2			

REMARKS

color Grey

HCL -

Micaceous Unfrosted Quartz Lithified (?) by silt & clay

Immature

DEPTH
(FT.)

165

TO

175

ROCK CLASSIFICATION

Basalt Flow

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color Yellowish Black

HCL

Flow Layer with Sediments

DEPTH
(FT.)

175

TO

185

ROCK CLASSIFICATION

Ash Layer

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT $\geq$ gravel sand				
OTHER $\geq$ gravel sand				
SILT AND CLAY				

REMARKS

color Brownish Red
HCL

Reworked Ash with Sediments

DEPTH
(FT.)

185

TO

190

ROCK CLASSIFICATION

gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT $>$ gravel sand	15	vfp-mp	m-1	v ang
	71	vfs-vcrs	m	ang
OTHER $\geq$ gravel sand	2	vfp-mp	1	sb rnd
	4	vfs-vcrs	m	sb rnd
SILT AND CLAY	8			

REMARKS

color Reddish Grey
HCL -

Reworked Ash (?) with Sediments

Immature

DEPTH
(FT.)

190

TO

195

ROCK CLASSIFICATION

Ash Layer

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u> sand	_____	_____	_____	_____
OTHER <u>> gravel</u> sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color
HCL

Slightly Diatomaceous (?)

Reworked Ash (?)

DEPTH
(FT.)

195

TO

200

ROCK CLASSIFICATION

Sand & Basalt Flow

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u> sand	_____	_____	_____	_____
OTHER <u>> gravel</u> sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color
HCL

Flow Layer with Sediments (22%)

WELL NUMBER

699-47-46

DEPTH
(FT.)

200

TO

207

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	_____	_____	_____	_____
sand	_____	_____	_____	_____
OTHER > gravel	_____	_____	_____	_____
sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color

HCL

Sample missing

Total Drilled Depth reported as 207'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT ≥ gravel	_____	_____	_____	_____
sand	_____	_____	_____	_____
OTHER ≥ gravel	_____	_____	_____	_____
sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color

HCL

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 48 - 71

N 047838
W 070660
Altitude 686

Other Data used in
Interpretation

Driller's Log

DEPTH
(FT.)TO
0 5

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	25	vfp-mp	m	sb rnd
	sand	46	vfs-vcrs	m	sb rnd
OTHER	>gravel	10	vfp-mp	l	rnd
	sand	16	vfs-vcrs	m	sb ang
SILT AND CLAY		3			

REMARKS

color Brownish Grey
HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)TO
5 15

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	55	vfp-crp	m	sb rnd
	sand	15	vfs-vcrs	m	sb rnd
OTHER	>gravel	20	vfp-crp	l	w rnd
	sand	7	vfs-vcrs	m	sb ang
SILT AND CLAY		3			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

15

TO

50

ROCK CLASSIFICATION

slightly gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	6	vfp-vcrp	l	rnd
	sand	36	vfs-vcrs	m	rnd
OTHER	>gravel	3	vfp-crp	m	rnd
	sand	55	vfs-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Greyish Buff ("salt & pepper")
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

50

TO

60

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	25	vfp-mp	l	rnd
	sand	28	vfs-vcrs	m	rnd
OTHER	>gravel	5	vfp-mp	m	rnd
	sand	38	vfs-vcrs	m	sb rnd
SILT AND CLAY		4			

REMARKS

color Buff Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

60

TO

90

ROCK CLASSIFICATION

Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	75	vfp-smcb	m	rnd
	sand	8	vfs-vcrs	m	rnd
OTHER	>gravel	12	vfp-vcrp	m	w rnd
	sand	4	vfs-vcrs	m	sb ang
SILT AND CLAY		1			

REMARKS

color Greyish BlackHCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

90

TO

100

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	35	vfp-vcrp	l	rnd
	sand	22	vfs-vcrs	m	rnd
OTHER	>gravel	7	vfp-mp	m	w rnd
	sand	35	vfs-vcrs	m	ang
SILT AND CLAY		1			

REMARKS

color Greyish BuffHCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

100

TO

105

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel sand	_____	_____	_____	_____
OTHER > gravel sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

105

TO

120

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel sand	65 13	vfp-crp vfs-vcrs	l m	rnd sb rnd
OTHER > gravel sand	10 11	vfp-mp vfs-vcrs	m m	w rnd sb ang
SILT AND CLAY	1			

REMARKS

color
HCL

Greyish Tan

-

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

120

TO

135

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	47	vfp-lqcb	1	rnd
	sand	17	ms-vcrs	1	rnd
OTHER	> gravel	19	vfp-lqcb	m	w rnd
	sand	17	ms-vcrs	h	sb rnd
SILT AND CLAY		0			

REMARKS

color Greyish BlackHCL -

Frosted Quartz

Immature

DEPTH
(FT.)

135

TO

150

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	38	vfp-crp	1	rnd
	sand	12	vfs-vcrs	1	sb rnd
OTHER	> gravel	27	vfp-crp	1	w rnd
	sand	21	vfs-vcrs	m	sb ang
SILT AND CLAY		2			

REMARKS

color Greyish TanHCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

150

TO

195

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	45	vfp-crp	l	rnd
	sand	5	vfs-vcrs	m	sb rnd
OTHER	> gravel	31	vfp-vcrp	m	w rnd
	sand	18	vfs-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Greyish Black-Tannish Buff
HCL -

Frosted Quartz

Immature

DEPTH
(FT.)

195

TO

200

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	18	vfp-mp	l	w rnd
	sand	27	vfs-vcrs	m	sb ang
OTHER	> gravel	22	vfp-mp	m	w rnd
	sand	30	vfs-vcrs	m	rnd
SILT AND CLAY		3			

REMARKS

color Greyish Buff
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

200

TO

275

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	34	vfp-crp	1	rnd
	sand	10	vfs-vcrs	m	sb ang
OTHER	>gravel	33	vfp-crp	1	rnd
	sand	20	vfs-vcrs	m	w rnd
SILT AND CLAY		3			

REMARKS

color Tan
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

275

TO

280

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	25	vfp-crp	1	w rnd
	sand	2	vfs-vcrs	1	sb rnd
OTHER	>gravel	30	vfp-vcrp	1	w rnd
	sand	41	vfs-vcrs	m	sb rnd
SILT AND CLAY		2			

REMARKS

color Brownish Buff
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

280

TO

290

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	25	vfp-crp	1	w rnd
	sand	2	ms-vcrs	1	sb ang
OTHER	>gravel	40	vfp-vcrp	1	w rnd
	sand	33	ms-vcrs	m	sb ang
SILT AND CLAY		0			

REMARKS

color Greyish Buff
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

290

TO

305

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	25	vfp-crp	1	w rnd
	sand	8	vfs-vcrs	1	sb rnd
OTHER	>gravel	10	vfp-crp	m	w rnd
	sand	51	vfs-vcrs	m	sb rnd
SILT AND CLAY		6			

REMARKS

color Greyish Tan
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

Total Drilled Depth reported as 305'

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

brownish buff

light grey

brownish grey

buff grey

blackish grey

greyish buff

brownish buff

greyish buff

brownish black

greyish black

brownish grey

N 048960

W 056913

Altitude 551

Other Data used in Interpretation

(1) Driller's Log

(2) E - Log

Well 699 - 49 - 57

DEPTH
(FT.)

0

TO

5

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	0			
sand	12	vfs-vcrs	1	sb ang
OTHER > gravel	0			
sand	88	vfs-vcrs	1	sb rnd
SILT AND CLAY	0			

REMARKS

color Brownish Buff
HCL -

Slightly Micaceous Frosted Quartz

Mature

DEPTH
(FT.)

5

TO

25

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT ≥ gravel	45	vfp-mp	1	sb rnd
sand	18	vfs-vcrs	1	rnd
OTHER ≥ gravel	15	vfp-mp	m	w rnd
sand	14	vfs-vcrs	m	w rnd
SILT AND CLAY	8			

REMARKS

color Light Grey
HCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

25

TO

70

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	37	vfp-mp	l	sb rnd
	sand	29	vfs-vcrs	m	sb rnd
OTHER	> gravel	15	vfp-mp	m	w rnd
	sand	14	vfs-vcrs	m	rnd
SILT AND CLAY		5			

REMARKS

color Brownish Grey
HCL - (25'-55'), + (55'-60'), - (60'-70')

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

70

TO

85

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	17	vfp-mp	l	sb rnd
	sand	27	fs-vcrs	l	sb rnd
OTHER	> gravel	5	vfp-fp	m	rnd
	sand	50	fs-vcrs	l	sb rnd
SILT AND CLAY		1			

REMARKS

color Buff Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

85

TO

90

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	45	vfp-mp	l	sb rnd
sand	24	vfs-vcrs	m	sb rnd
OTHER > gravel	15	vfp-mp	m	w rnd
sand	14	vfs-vcrs	m	sb rnd
SILT AND CLAY	2			

REMARKS

color Blackish Grey
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

90

TO

95

ROCK CLASSIFICATION

slightly gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	5	vfp-fp	l	rnd
sand	45	vfs-vcrs	l	sb rnd
OTHER > gravel	5	vfp-fp	l	rnd
sand	44	vfs-vcrs	m	sb rnd
SILT AND CLAY	1			

REMARKS

color Greyish Buff
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

95

TO

110

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>3</u>	<u>vfp-fp</u>	<u>1</u>	<u>rnd</u>
sand	<u>19</u>	<u>vfs-ms</u>	<u>1</u>	<u>sb rnd</u>
OTHER <u>> gravel</u>	<u>0</u>			
sand	<u>73</u>	<u>vfs-ms</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY	<u>5</u>			

REMARKS

color Brownish BuffHCL -

Micaceous Unfrosted Quartz

Mature

DEPTH
(FT.)

110

TO

120

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>43</u>	<u>vfp-crp</u>	<u>1</u>	<u>rnd</u>
sand	<u>17</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER <u>> gravel</u>	<u>20</u>	<u>vfp-crp</u>	<u>1</u>	<u>w rnd</u>
sand	<u>15</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY	<u>5</u>			

REMARKS

color Greyish BuffHCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

120

TO

125

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	50	vfp-crp	l	sb rnd
	sand	18	vfs-vcrs	m	sb rnd
OTHER	> gravel	25	vfp-crp	l	w rnd
	sand	6	vfs-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Brownish Black
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

125

TO

160

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	46	vfp-crp	l	sb rnd
	sand	12	fs-vcrs	m	sb rnd
OTHER	> gravel	33	vfp-crp	m	rnd
	sand	9	fs-vcrs	m	sb rnd
SILT AND CLAY		0			

REMARKS

color Greyish Black
HCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

160

TO

168

ROCK CLASSIFICATION

gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	15	vfp-crp	m-l	sb rnd-v ang
sand	49	vfs-vcrs	l	sb rnd
OTHER > gravel	10	vfp-fp	m	rnd
sand	21	vfs-vcrs	l	sb rnd
SILT AND CLAY	5			

REMARKS

color Brownish Grey
HCL -

Micaceous Unfrosted Quartz

Immature

Total Drilled Depth reported as 168'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Depth (ft.)	Graphic Log	Sample Description	Plant Coordinates
			N 050299
			W 029833
			Altitude 527
			Other Data used in Interpretation
			(1) Driller's Log
			(2) Descriptive Log
			from Newcomb et al, 1972, p.76
			(3) E-Log
50		greyish tan	
		brownish tan	
		brownish tan	
		tan	
		greyish brown	
		brownish tan	
		whitish tan	
100		brownish buff	
		tan	
150		buff	
		greyish buff	
		greyish buff	
		light brown	
		brownish grey	
200		tan	
		buff	
		tan	
		buff	
250		brownish buff	
		tan	
300		white buff	
		whitish tan	
		greyish brown; silt pebble interclasts	
350		greyish brown	
		brownish grey	
		greyish black	
400	TD 380		

W. K. Summers & Associates

DEPTH
(FT.)

0

TO

20

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	27	vfp-crp	1	rnd
	sand	28	vfs-vcrs	m	rnd
OTHER	> gravel	27	vfp-crp	1	rnd
	sand	9	vfs-vcrs	m	rnd
SILT AND CLAY		9			

REMARKS

color Greyish Tan
HCL - (0'-5'), + (5'-20')

Slightly Micaceous

Immature

DEPTH
(FT.)

20

TO

30

ROCK CLASSIFICATION

gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	13	vfp-crp	1	rnd
	sand	23	vfs-vcrs	1	rnd
OTHER	>gravel	13	vfp-crp	1	rnd
	sand	36	vfs-vcrs	m	sb rnd
SILT AND CLAY		15			

REMARKS

color Brownish Tan
HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

30

TO

60

ROCK CLASSIFICATION

silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>3</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb rnd</u>
sand	<u>12</u>	<u>vfs-ms</u>	<u>1</u>	<u>sb rnd</u>
OTHER <u>> gravel</u>	<u>0</u>			
sand	<u>48</u>	<u>vfs-ms</u>	<u>h</u>	<u>rnd</u>
SILT AND CLAY	<u>37</u>			

REMARKS

color Brownish TanHCL +Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

60

TO

70

ROCK CLASSIFICATION

gravelly silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>15</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
sand	<u>14</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER <u>> gravel</u>	<u>15</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
sand	<u>28</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY	<u>28</u>			

REMARKS

color TanHCL +Caliche (pebbles & sand present) Slightly Micaceous

Immature

DEPTH
(FT.)

70

TO

75

ROCK CLASSIFICATION

Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	50	vfp-crp	l	rnd
sand	2	vfs-vcrs	m	rnd
OTHER > gravel	40	vfp-crp	m	w rnd
sand	7	vfs-vcrs	m	rnd
SILT AND CLAY	1			

REMARKS

color Greyish Brown-Tan
HCL +

Frosted Quartz

Immature

DEPTH
(FT.)

75

TO

95

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	21	vfp-crp	l	rnd
sand	7	vfs-vcrs	m	rnd
OTHER > gravel	21	vfp-crp	l	rnd
sand	46	vfs-vcrs	m	rnd
SILT AND CLAY	5			

REMARKS

color Brownish Tan
HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

95

TO

100

ROCK CLASSIFICATION

slightly silty gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>10</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb rnd</u>
<u>sand</u>	<u>10</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER <u>> gravel</u>	<u>10</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb rnd</u>
<u>sand</u>	<u>58</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY	<u>12</u>			

REMARKS

color Whitish Tan
HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

100

TO

135

ROCK CLASSIFICATION

slightly silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>2</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb rnd</u>
<u>sand</u>	<u>14</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER <u>> gravel</u>	<u>1</u>	<u>vfp-fp</u>	<u>1</u>	<u>rnd</u>
<u>sand</u>	<u>73</u>	<u>vfs-vcrs</u>	<u>h</u>	<u>sb rnd</u>
SILT AND CLAY	<u>10</u>			

REMARKS

color Brownish Buff
HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

135

TO

145

ROCK CLASSIFICATION

sandy Silt

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	<u>> gravel</u>	<u>0</u>			
	<u>sand</u>	<u>5</u>	<u>vfs-ms</u>	<u>l</u>	<u>sb rnd</u>
OTHER	<u>> gravel</u>	<u>0</u>			
	<u>sand</u>	<u>25</u>	<u>vfs-ms</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>70</u>			

REMARKS

color
HCL

Tan

+

Slightly Micaceous

Immature

DEPTH
(FT.)

145

TO

160

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	<u>> gravel</u>	<u>0</u>			
	<u>sand</u>	<u>10</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER	<u>> gravel</u>	<u>0</u>			
	<u>sand</u>	<u>85</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>5</u>			

REMARKS

color
HCL

Buff

+

Slightly Micaceous

Frosted Quartz

Mature

DEPTH
(FT.)

160

TO

170

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	33	vfp-crp	1	w rnd
	sand	10	vfs-vcrs	1	sb rnd
OTHER	> gravel	32	vfp-crp	1	w rnd
	sand	21	vfs-vcrs	m	rnd
SILT AND CLAY		4			

REMARKS

color Greyish Buff

HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

170

TO

175

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	18	vfp-mp	1	w rnd
	sand	5	vfs-vcrs	m	sb rnd
OTHER	> gravel	17	vfp-mp	1	w rnd
	sand	57	vfs-vcrs	m	rnd
SILT AND CLAY		3			

REMARKS

color Greyish Buff

HCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

175

TO

180

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	25	vfp-mp	l	w rnd
sand	11	vfs-vcrs	m	sb rnd
OTHER > gravel	25	vfp-mp	l	w rnd
sand	35	vfs-vcrs	m	rnd
SILT AND CLAY	4			

REMARKS

color
HCL

Light Brown

-

Slightly Micaceous

Frosted Quartz

Immature

DEPTH
(FT.)

180

TO

200

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	41	vfp-crp	l	rnd
sand	10	vfs-vcrs	m	rnd
OTHER > gravel	34	vfp-crp	l	rnd
sand	14	vfs-vcrs	m	rnd
SILT AND CLAY	1			

REMARKS

color
HCL

Brownish Grey

-

Slightly Micaceous

Frosted Quartz

Immature

DEPTH
(FT.)

200

TO

205

ROCK CLASSIFICATION

gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>10</u>	<u>vfp-mp</u>	<u>1</u>	<u>rnd</u>
sand	<u>12</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER > gravel	<u>10</u>	<u>vfp-crp</u>	<u>1</u>	<u>rnd</u>
sand	<u>62</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY	<u>6</u>			

REMARKS

color
HCLTan-

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

205

TO

220

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	<u>1</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb rnd</u>
sand	<u>7</u>	<u>vfs-crs</u>	<u>m</u>	<u>sb rnd</u>
OTHER > gravel	<u>1</u>	<u>vfp-mp</u>	<u>1</u>	<u>sb rnd</u>
sand	<u>86</u>	<u>vfs-crs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY	<u>5</u>			

REMARKS

color
HCLBuff-

Slightly Micaceous Frosted Quartz

Mature

DEPTH
(FT.)

220

TO

230

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	3	-fp-	l	sb rnd
		3	vfs-crs	m	sb rnd
OTHER	> gravel sand	1	-fp-	l	sb rnd
		82	vfs-crs	m	rnd
SILT AND CLAY		11			

REMARKS

color Tan
HCL -

Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

230

TO

245

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	3	vfp-mp	l	sb rnd
		5	vfs-crs	m	sb rnd
OTHER	> gravel sand	2	vfp-mp	l	sb rnd
		85	vfs-crs	m	rnd
SILT AND CLAY		5			

REMARKS

color Buff
HCL -

Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

245

TO

275

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	13	vfp-crp	l	rnd
	sand	8	vfs-vcrs	m	sb rnd
OTHER	> gravel	15	vfp-crp	l	rnd
	sand	58	vfs-vcrs	m	sb rnd
SILT AND CLAY		6			

REMARKS

color Brownish BuffHCL -

Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

275

TO

280

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color _____

HCL _____

Sample missing

DEPTH
(FT.)

280

TO

295

ROCK CLASSIFICATION

slightly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	2	vfp-fp	1	sb rnd
		3	vfs-vcrs	m	rnd
OTHER	> gravel sand	2	vfp-fp	1	sb rnd
		74	vfs-vcrs	m	rnd
SILT AND CLAY		19			

REMARKS

color
HCL

Tan

-

Slightly Micaceous

Frosted Quartz

Immature

DEPTH
(FT.)

295

TO

310

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	0			
		2	vfs-ms	1	sb rnd
OTHER	> gravel sand	0			
		95	vfs-ms	m	sb ang
SILT AND CLAY		3			

REMARKS

color
HCL

White Buff

-

Micaceous

Unfrosted Quartz

Mature

DEPTH
(FT.)

310

TO

315

ROCK CLASSIFICATION

slightly silty gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	12	vfp-crp	m	rnd
sand	4	vfs-vcrs	l	sb rnd
OTHER > gravel	13	vfp-crp	m	rnd
sand	62	vfs-vcrs	m	sb ang
SILT AND CLAY	9			

REMARKS

color Whitish Tan
HCL -

Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

315

TO

330

ROCK CLASSIFICATION

silty Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	1	vfp-crp	l	rnd
sand	3	vfs-ms	l	sb rnd
OTHER > gravel	1	vfp-crp	l	rnd
sand	51	vfs-ms	m	sb rnd
SILT AND CLAY	44			

REMARKS

color Whitish Tan
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

330

TO

335

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>>gravel</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>sand</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
OTHER <u>>gravel</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>sand</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
SILT AND CLAY	<u> </u>			

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

335

TO

360

ROCK CLASSIFICATION

sandy Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>>gravel</u>	<u>1</u>	<u>-fp-</u>	<u>m</u>	<u>sb rnd</u>
<u>sand</u>	<u>2</u>	<u>vfs-crs</u>	<u>m</u>	<u>sb rnd</u>
OTHER <u>>gravel</u>	<u>0</u>			
<u>sand</u>	<u>20</u>	<u>vfs-crs</u>	<u>h</u>	<u>sb rnd</u>
SILT AND CLAY	<u>77</u>			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous Gypsiferous (sand) Silt pebble interclasts

Lithified by gypsum, silt & clay

Immature

DEPTH
(FT.)

360

TO

365

ROCK CLASSIFICATION

silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	2	-fp-	m	sb rnd
	sand	10	vfs-vcrs	m	sb rnd
OTHER	>gravel	0			
	sand	59	vfs-vcrs	m	rnd
SILT AND CLAY		29			

REMARKS

color Greyish Brown
HCL +

Caliche (pebbles & sand present)

Slightly Micaceous

Slightly Gypsiferous

Immature

DEPTH
(FT.)

365

TO

370

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	20	vfp-mp	l	rnd
	sand	64	vfs-vcrs	m	sb ang
OTHER	>gravel	0			
	sand	12	vfs-vcrs	m	sb rnd
SILT AND CLAY		4			

REMARKS

color Brownish Grey
HCL +

Caliche (pebbles & sand present)

Slightly Micaceous

Frosted Quartz

Immature

DEPTH
(FT.)

370

TO

375

ROCK CLASSIFICATION

slightly silty gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT >gravel	30	-fp-	l	v ang
sand	56	vfs-vcrs	m	ang
OTHER >gravel	0			
sand	7	vfs-vcrs	m	rnd
SILT AND CLAY	7			

REMARKS

color Greyish Black
HCL -

Caliche (pebbles & sand present)

Slightly Micaceous

Frosted Quartz

Immature

DEPTH
(FT.)

375

TO

380

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT >gravel				
sand				
OTHER >gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

Total Drilled Depth reported as 380'

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 50 - 42

N 050206

W 041909

Altitude 465

Other Data used in
Interpretation

Driller's Log

greenish grey
black
light grey
brownish white-whitish brown
brownish grey
light grey
dark grey
TRACE DIATOMITE
TRACE DIATOMITE
TRACE DIATOMITE

DEPTH
(FT.)

0

TO

15

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	30	vfp-mp	l	w rnd
sand	27	vfs-vcrs	m	sb rnd
OTHER > gravel	15	vfp-mp	m	w rnd
sand	22	vfs-vcrs	m	sb rnd
SILT AND CLAY	6			

REMARKS

color Greenish Grey
HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

15

TO

30

ROCK CLASSIFICATION

Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	85	vfp-crp	l	sb rnd
sand	1	ms-vcrs	l	sb rnd
OTHER > gravel	12	vfp-crp	m	rnd
sand	2	ms-vcrs	m	sb rnd
SILT AND CLAY	0			

REMARKS

color Black ("salt & pepper")
HCL -

Mature

DEPTH
(FT.)

30

TO

35

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	<u>> gravel</u> sand	6	vfp-fp	m	sb rnd
		35	vfs-vcrs	l	sb rnd
OTHER	<u>> gravel</u> sand	6	vfp-fp	m	sb rnd
		44	vfs-vcrs	m	sb rnd
SILT AND CLAY		9			

REMARKS

color Light Grey
HCL +

Caliche (pebbles & sand present) Slightly Micaceous

Lithified by silt & clay

Immature

DEPTH
(FT.)

35

TO

50

ROCK CLASSIFICATION

slightly gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	<u>> gravel</u> sand	5	vfp-mp	l	sb rnd
		14	vfs-vcrs	l	sb rnd
OTHER	<u>> gravel</u> sand	5	vfp-mp	l	sb rnd
		54	vfs-vcrs	m	rnd
SILT AND CLAY		22			

REMARKS

color Brownish White-Whitish Brown
HCL +

Abundant Caliche (between 35' & 40') Slightly Micaceous Frosted Quartz

Lithified by silt, clay & CaCO₃

Immature

DEPTH
(FT.)

50

TO

60

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel sand	38	vfp-mp	1	sb rnd
		10	vfs-vcrs	1	sb ang
OTHER	>gravel sand	27	vfp-mp	1	sb rnd
		23	vfs-vcrs	m	sb rnd
SILT AND CLAY		2			

REMARKS

color Brownish Grey
HCL -

Slightly Micaceous Frosted Quartz Lithified (?)

Immature

DEPTH
(FT.)

60

TO

65

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel sand	35	vfp-mp	1	sb rnd
		18	fs-vcrs	m	sb rnd
OTHER	>gravel sand	10	vfp-mp	1	w rnd
		33	fs-vcrs	m	sb ang
SILT AND CLAY		4			

REMARKS

color Light Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

65

TO

70

ROCK CLASSIFICATION

Sand & Basalt Flow

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	15	-vfp-	l	ang
sand	81	ms-vcrs	m	rnd
OTHER > gravel	0			
sand	4	ms-vcrs	m	w rnd
SILT AND CLAY	0			

REMARKS

color Black
HCL -

Frosted Quartz

Immature

DEPTH
(FT.)

70

TO

75

ROCK CLASSIFICATION

sandy Silt

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	15	vfs-vcrs	m	rnd
OTHER > gravel	0			
sand	25	vfs-vcrs	h	rnd
SILT AND CLAY	60			

REMARKS

color Dark Grey
HCL -

Slightly Micaceous Compacted

Immature

DEPTH
(FT.)

75

TO

90

ROCK CLASSIFICATION

Sand & Basalt Flow

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	70	vfp-mp	l	ang
sand	27	vfs-vcrs	m	rnd-v ang
OTHER > gravel	0			
sand	2	vfs-vcrs	h	sb rnd
SILT AND CLAY	1			

REMARKS

color Reddish Black

HCL -

Caliche (stained pebbles present)

Slightly Diatomaceous (pebbles & sand)

Slightly Micaceous

Immature

DEPTH
(FT.)

90

TO

95

ROCK CLASSIFICATION

Mudflow (?)

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	50	vfp-mp	m	ang
sand	38	vfs-vcrs	h	rnd-v ang
OTHER > gravel	0			
sand	1	vfs-vcrs	m	sb rnd
SILT AND CLAY	11			

REMARKS

color Blackish Red

HCL -

Slightly Diatomaceous (pebbles & sand)

DEPTH
(FT.)

95

TO

105

ROCK CLASSIFICATION

Sand & Basalt Flow

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	35	vfp-mp	l	v ang
sand	64	vfs-vcrs	m	rnd-v ang
OTHER > gravel	0			
sand	0			
SILT AND CLAY	1			

REMARKS

color Black
HCL -

DEPTH
(FT.)

105

TO

110

ROCK CLASSIFICATION

Sand & Basalt Flow

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	50	vfp-mp	m	ang
sand	47	vfs-vcrs	m	rnd-v ang
OTHER > gravel	0			
sand	2	vfs-vcrs	m	sb rnd
SILT AND CLAY	1			

REMARKS

color Reddish Black
HCL -

Slightly Diatomaceous (pebbles & sand)

Slightly Micaceous

Immature

DEPTH
(FT.)

110

TO

115

ROCK CLASSIFICATION

Sand & Basalt Flow

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	50	vfp-mp	l	v ang
sand	48	vfs-vcrs	m	rnd-v ang
OTHER > gravel	0			
sand	1	vfs-vcrs	l	rnd
SILT AND CLAY	1			

REMARKS

color Greyish Black

HCL -

Slightly Diatomaceous (sand)

Immature

DEPTH
(FT.)

115

TO

120

ROCK CLASSIFICATION

gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	20	vfp-mp	l	v ang
sand	76	vfs-vcrs	m	sb rnd-v ang
OTHER > gravel	0			
sand	1	vfs-vcrs	m	sb rnd
SILT AND CLAY	3			

REMARKS

color Greyish Black

HCL -

Slightly Diatomaceous (pebbles & sand)

Slightly Micaceous

DEPTH
(FT.)

120

TO

125

ROCK CLASSIFICATION

Sand & Ash Flow

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel	0			
sand	94	vfs-vcrs	m	sb rnd-v ang
OTHER > gravel	0			
sand	2	vfs-vcrs	m	rnd
SILT AND CLAY	4			

REMARKS

color Blackish Grey
HCL -

Slightly Diatomaceous (fragments)

Slightly Micaceous

Submature

Total Drilled Depth reported as 125'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel				
sand				
OTHER > gravel				
sand				
SILT AND CLAY				

REMARKS

color
HCL

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

Well 699 - 50 - 85

N 049875

W 084505

Altitude 738

Other Data used in
Interpretation

Driller's Log

greyish brown
greyish buff
buff grey
greyish brown; TRACE DIATOMITE
brownish buff
tan grey

greyish buff

buff tan

tan

tannish buff

buff

greyish brown

blueish tan-grey

W. K. Summers & Associates

Sample Description

brownish tan

greyish buff

brownish grey

greyish tan

light grey; TRACE DIATOMITE
dark grey
greyish black

Plant Coordinates

Altitude

Other Data used in
Interpretation

Well 699 - 50 - 85 cont

DEPTH
(FT.)

0

TO

15

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	30	vfp-mp	1	rnd
	sand	13	vfs-vcrs	1	sb rnd
OTHER	>gravel	5	vfp-mp	m	w rnd
	sand	49	vfs-vcrs	m	sb rnd
SILT AND CLAY		3			

REMARKS

color Greyish Brown

HCL +

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

15

TO

20

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	12	vfp-fp	1	rnd
	sand	14	vfs-vcrs	m	sb rnd
OTHER	>gravel	8	vfp-fp	m	rnd
	sand	64	vfs-vcrs	m	rnd
SILT AND CLAY		2			

REMARKS

color Greyish Buff

HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

20

TO

25

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	20	vfp-mp	l	rnd
		32	vfs-vcrs	m	rnd
OTHER	> gravel sand	10	vfp-mp	m	rnd
		38	vfs-vcrs	m	rnd
SILT AND CLAY		0			

REMARKS

color Buff Grey
HCL -

Frosted Quartz

Immature

DEPTH
(FT.)

25

TO

40

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	59	vfp-mp	m	w rnd
		5	vfs-vcrs	m	sb rnd
OTHER	> gravel sand	4	vfp-mp	m	w rnd
		30	vfs-vcrs	m	sb rnd
SILT AND CLAY		2			

REMARKS

color Greyish Brown
HCL +

Slightly Diatomaceous (pebbles & sand)

Slightly Micaceous

Frosted Quartz

Immature

DEPTH
(FT.)

40

TO

50

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	2	vfp-mp	1	sb rnd
	sand	9	vfs-vcrs	m	rnd
OTHER	>gravel	5	vfp-mp	m	rnd
	sand	82	vfs-vcrs	m	sb ang
SILT AND CLAY		2			

REMARKS

color Brownish Buff
HCL +

Caliche (pebbles & sand present)

Slightly Micaceous

Unfrosted Quartz

Submature

DEPTH
(FT.)

50

TO

65

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	57	vfp-mp	1	rnd
	sand	17	vfs-vcrs	m	rnd
OTHER	>gravel	10	vfp-fp	m	rnd
	sand	15	vfs-vcrs	m	sb rnd
SILT AND CLAY		1			

REMARKS

color Tan Grey
HCL +

Caliche (pebbles & sand present between 60' & 65')

Slightly Micaceous

Frosted Quartz

Immature

DEPTH
(FT.)

65

TO

100

ROCK CLASSIFICATION

gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	18	vfp-mp	l	sb rnd
sand	30	vfs-vcrs	m	sb rnd
OTHER > gravel	4	vfp-mp	m	rnd
sand	47	vfs-vcrs	m	sb ang
SILT AND CLAY	1			

REMARKS

color Greyish Buff
HCL +

Caliche (pebbles & sand present)

Slightly Micaceous

Frosted Quartz

Immature

DEPTH
(FT.)

100

TO

120

ROCK CLASSIFICATION

slightly gravelly Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	4	vfp-mp	l	rnd
sand	6	vfs-vcrs	m	rnd
OTHER > gravel	2	vfp-mp	l	rnd
sand	83	vfs-vcrs	m	sb rnd
SILT AND CLAY	5			

REMARKS

color Buff Tan
HCL +

Caliche (pebbles & sand present)

Slightly Micaceous

Frosted Quartz

Sample interval 110'-115' missing

Immature

WELL NUMBER

699-50-85

DEPTH
(FT.)

120

TO

145

ROCK CLASSIFICATION

silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	2	vfp-mp	l	w rnd
	sand	5	vfs-crs	m	rnd
OTHER	> gravel	0			
	sand	59	vfs-crs	m	rnd
SILT AND CLAY		34			

REMARKS

color Tan
HCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

145

TO

165

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	1	-fp-	l	rnd
	sand	15	vfs-vcrs	m	rnd
OTHER	> gravel	0			
	sand	80	vfs-vcrs	m	rnd
SILT AND CLAY		4			

REMARKS

color Tannish Buff
HCL +

Slightly Micaceous Frosted Quartz

Submature

DEPTH
(FT.)

165

TO

210

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	1	vfp-mp	1	rnd
	sand	6	vfs-vcrs	m	rnd
OTHER	>gravel	1	vfp-mp	1	w rnd
	sand	88	vfs-vcrs	m	rnd
SILT AND CLAY		4			

REMARKS

color
HCL

Buff

+

Slightly Micaceous Frosted Quartz

Submature

DEPTH
(FT.)

210

TO

470

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	25	vfp-crp	1	w rnd
	sand	6	vfs-vcrs	m	rnd
OTHER	>gravel	26	vfp-crp	1	w rnd
	sand	37	vfs-vcrs	m	sb rnd
SILT AND CLAY		6			

REMARKS

color
HCL

Greyish Brown

+ (210'-225'), - (225'-230'), + (230'-275', 285'-290'),
- (300'-305', 310'-350', 355'-470')Slightly Micaceous Sample intervals 275'-285', 290'-300', 305'-310',
350'-355' missing

Immature

DEPTH
(FT.)

470

TO

475

ROCK CLASSIFICATION

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel sand	_____	_____	_____	_____
OTHER > gravel sand	_____	_____	_____	_____
SILT AND CLAY	_____			

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

475

TO

495

ROCK CLASSIFICATION

gravelly Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel sand	18 4	vfp-mp vfs-vcrs	l m	rnd rnd
OTHER > gravel sand	5 11	vfp-mp vfs-vcrs	m m	w rnd ang
SILT AND CLAY	62			

REMARKS

color
HCL

Bluish Tan-Grey

-

Slightly Micaceous Lithified by silt & clay

Immature

DEPTH
(FT.)

495

TO

500

ROCK CLASSIFICATION

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER > gravel
sand

SILT AND CLAY

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

500

TO

510

ROCK CLASSIFICATION

slightly gravelly sandy silt

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESS

3

vfp-mp

l

sb rnd

2

vfs-crs

m

sb rnd

OTHER > gravel
sand

3

vfp-mp

l

sb rnd

42

vfs-crs

h

sb ang

SILT AND CLAY

50

REMARKS

color
HCL

Brownish Tan

+

Slightly Micaceous

Compacted

Immature

DEPTH
(FT.)

510

TO

515

ROCK CLASSIFICATION

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER > gravel
sand

SILT AND CLAY

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

515

TO

520

ROCK CLASSIFICATION

Sand

BASALT > gravel
sand%SIZE RANGESPHERICITYROUNDNESSOTHER > gravel
sand

SILT AND CLAY

REMARKS

color
HCL

Greyish Buff

Slightly Micaceous Unfrosted Quartz

Submature

DEPTH
(FT.)

520

TO

525

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand				
OTHER > gravel sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

525

TO

555

ROCK CLASSIFICATION

slightly silty gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand	13	vfp-crp	1	sb rnd
	15	vfs-vcrs	m	sb rnd
OTHER > gravel sand	13	vfp-crp	1	sb rnd
	48	vfs-vcrs	m	sb rnd
SILT AND CLAY	11			

REMARKS

color
HCL

Brownish Grey

+ (525'-545'), - (545'-555')

Slightly Micaceous

Frosted Quartz

Compacted (?)

Immature

DEPTH
(FT.)

555

TO

560

ROCK CLASSIFICATION

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand				
OTHER > gravel sand				
SILT AND CLAY				

REMARKS

color
HCL

Sample missing

DEPTH
(FT.)

560

TO

580

ROCK CLASSIFICATION

slightly silty gravelly Sand

	%	SIZE RANGE	SPHERICITY	ROUNDNESS
BASALT > gravel sand	11 12	vfp-mp vfs-vcrs	1 m	sb rnd rnd
OTHER > gravel sand	4 60	vfp-mp vfs-vcrs	1 m	sb rnd rnd
SILT AND CLAY	13			

REMARKS

color
HCL

Greyish Tan

- (560'-565'), + (565'-568'), - (568'-580')

Slightly Micaceous

Angular Obsidian Flakes (pebbles present between
560' & 565')

Frosted Quartz

Immature

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 051449

W 063060

Altitude 570

Other Data used in
Interpretation

Driller's Log

Well 699 - 51 - 63

DEPTH
(FT.)

0

TO

20

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	52	vfp-crp	m	rnd
	sand	26	vfs-vcrs	l	rnd
OTHER	> gravel	10	vfp-mp	m	rnd
	sand	8	vfs-vcrs	m	rnd
SILT AND CLAY		4			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

20

TO

40

ROCK CLASSIFICATION

Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	74	vfp-crp	m	rnd
	sand	9	vfs-vcrs	l	sb rnd
OTHER	> gravel	11	vfp-crp	l	rnd
	sand	5	vfs-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Greyish Black
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

40

TO

55

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	61	vfp-crp	m	rnd
	sand	22	vfs-vcrs	l	sb rnd
OTHER	gravel	9	vfp-crp	m	w rnd
	sand	7	vfs-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Greyish Black
HCL -

Immature

DEPTH
(FT.)

55

TO

60

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	10	vfp-mp	m	sb rnd
	sand	50	vfs-vcrs	l	sb ang
OTHER	> gravel	6	vfp-mp	m	rnd
	sand	34	vfs-vcrs	l	sb rnd
SILT AND CLAY		0			

REMARKS

color Black
HCL -

Frosted Quartz

Immature

DEPTH
(FT.)

60

TO

90

ROCK CLASSIFICATION

Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	76	vfp-crp	m	rnd
	sand	6	vfs-vcrs	l	sb rnd
OTHER	>gravel	15	vfp-crp	m	rnd
	sand	2	vfs-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Greyish Black

HCL -

Submature

DEPTH
(FT.)

90

TO

110

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	31	vfp-vcrp	m	rnd
	sand	17	vfs-vcrs	l	sb rnd
OTHER	> gravel	30	vfp-vcrp	l	w rnd
	sand	21	vfs-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Greyish Black

HCL -

Frosted Quartz

Immature

DEPTH
(FT.)

110

TO

115

ROCK CLASSIFICATION

gravelly sandy Silt

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	8	-fp-	m	rnd
sand	2	vfs-ms	l	sb rnd
OTHER > gravel	8	-fp-	m	rnd
sand	15	vfs-ms	m	rnd
SILT AND CLAY	67			

REMARKS

color Light Grey
HCL -

Immature

DEPTH
(FT.)

115

TO

175

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT > gravel	34	vfp-crp	l	w rnd
sand	14	vfs-vcrs	m	sb rnd
OTHER > gravel	34	vfp-vcrp	m	w rnd
sand	16	vfs-vcrs	m	rnd
SILT AND CLAY	2			

REMARKS

color Greyish Buff
HCL -

Frosted Quartz

Immature

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 053531

W 040435

Altitude 541

Other Data used in
Interpretation

Driller's Log

Well 699 - 55 - 40

tannish. grey

tannish grey

greyish brown

greyish brown

tannish brown

greyish brown

tannish grey

DEPTH
(FT.)

0

TO

20

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	0			
	sand	52	vfs-crs	m	sb ang
OTHER	> gravel	0			
	sand	40	vfs-crs	m	rnd
SILT AND CLAY		8			

REMARKS

color Tannish Grey

HCL -

Slightly Micaceous Frosted Quartz

Mature

DEPTH
(FT.)

20

TO

40

ROCK CLASSIFICATION

Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	1	-mp-	l	sb rnd
	sand	55	vfs-crs	m	sb rnd
OTHER	> gravel	1	-mp-	l	sb rnd
	sand	39	vfs-crs	m	w rnd
SILT AND CLAY		4			

REMARKS

color Tannish Grey

HCL - (20'-25'), + (25'-40')

Slightly Micaceous Frosted Quartz

Mature

DEPTH
(FT.)

40

TO

70

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	49	vfp-crp	l	rnd
	sand	19	vfs-vcrs	m	rnd
OTHER	>gravel	14	vfp-mp	l	w rnd
	sand	13	vfs-vcrs	m	w rnd
SILT AND CLAY		5			

REMARKS

color Greyish Brown
HCL + (40'-50'), - (50'-70')

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

70

TO

95

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	26	vfp-crp	m	rnd
	sand	13	vfs-vcrs	m	rnd
OTHER	>gravel	30	vfp-mp	m	rnd
	sand	24	vfs-vcrs	m	sb rnd
SILT AND CLAY		7			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

95

TO

115

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>15</u>	<u>vfp-mp</u>	<u>l</u>	<u>rnd</u>
<u>sand</u>	<u>13</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER <u>> gravel</u>	<u>23</u>	<u>vfp-mp</u>	<u>m</u>	<u>rnd</u>
<u>sand</u>	<u>37</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>ang</u>
SILT AND CLAY	<u>12</u>			

REMARKS

color Tannish Brown
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

115

TO

125

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>20</u>	<u>vfp-mp</u>	<u>l</u>	<u>w rnd</u>
<u>sand</u>	<u>24</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER <u>> gravel</u>	<u>25</u>	<u>vfp-mp</u>	<u>m</u>	<u>w rnd</u>
<u>sand</u>	<u>25</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY	<u>6</u>			

REMARKS

color Greyish Brown
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

WELL NUMBER

699-55-40

DEPTH
(FT.)

125

TO

145

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	20	vfp-crp	l	w rnd
	sand	21	vfs-vcrs	m	sb ang
OTHER	> gravel	24	vfp-crp	l	w rnd
	sand	31	vfs-vcrs	m	rnd
SILT AND CLAY		4			

REMARKS

color Tannish Grey

HCL -

Slightly Micaceous Frosted Quartz

Immature

Total Drilled Depth reported as 145'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color

HCL

Depth
(ft.)

Graphic Log

Sample Description

greyish black (salt & pepper)
greyish black
grey
greyish black (salt & pepper)
tannish black
greyish black
greyish black
purplish grey
greyish black

Plant Coordinates

N 055006
W 050000
Altitude 441

Other Data used in Interpretation

- (1) Driller's Log
- (2) Sieve analyses
- McHenry 1957 p.55

Well 699 - 55 - 50A

DEPTH
(FT.)

0

TO

10

ROCK CLASSIFICATION

Sand

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT >gravel	2	vfp-mp	1	sb rnd
sand	82	vfs-vcrs	1	sb rnd
OTHER >gravel	1	vfp-mp	m	sb rnd
sand	14	vfs-vcrs	m	sb rnd
SILT AND CLAY	1			

REMARKS

color Greyish Black ("salt & pepper")
HCL -

Frosted Quartz

Submature

DEPTH
(FT.)

10

TO

35

ROCK CLASSIFICATION

sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT >gravel	60	vfp-fp	1	sb rnd
sand	28	vfs-vcrs	m	sb rnd
OTHER >gravel	5	vfp-fp	m	sb rnd
sand	6	vfs-vcrs	m	rnd
SILT AND CLAY	1			

REMARKS

color Greyish Black
HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

35

TO

60

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	52	vfp-fp	l	sb rnd
	sand	32	vfs-vcrs	m	sb rnd
OTHER	> gravel	6	vfp-fp	m	sb rnd
	sand	7	vfs-vcrs	m	rnd
SILT AND CLAY		3			

REMARKS

color Grey
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

60

TO

70

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	12	vfp-fp	l	sb rnd
	sand	57	vfs-vcrs	l	sb ang
OTHER	> gravel	3	vfp-fp	m	sb rnd
	sand	27	vfs-vcrs	m	sb ang
SILT AND CLAY		1			

REMARKS

color Greyish Black ("salt & pepper")
HCL -

Slightly Micaceous

Unfrosted Quartz

Immature

DEPTH
(FT.)

70

TO

75

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	30	-vfp-	m	sb rnd
	sand	49	vfs-vcrs	l	sb rnd
OTHER	>gravel	0			
	sand	15	vfs-vcrs	m	sb ang
SILT AND CLAY		6			

REMARKS

color Tannish Black
HCL -

Slightly Micaceous Sieved (?)

Immature

DEPTH
(FT.)

75

TO

90

ROCK CLASSIFICATION

Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	78	vfp-mp	l	rnd
	sand	10	vfs-vcrs	m	rnd
OTHER	>gravel	5	vfp-mp	m	rnd
	sand	5	vfs-vcrs	m	rnd
SILT AND CLAY		2			

REMARKS

color Greyish Black
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

90

TO

95

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	<u>> gravel</u>	<u>75</u>	<u>vfp-mp</u>	<u>l</u>	<u>rnd</u>
	<u>sand</u>	<u>8</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	<u>> gravel</u>	<u>5</u>	<u>vfp-mp</u>	<u>m</u>	<u>rnd</u>
	<u>sand</u>	<u>8</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb ang</u>
SILT AND CLAY		<u>4</u>			

REMARKS

color Greyish Black
HCL +

Caliche (sand present)

Lithified by silt, clay & CaCO₃

Immature

DEPTH
(FT.)

95

TO

100

ROCK CLASSIFICATION

slightly gravelly silty Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	<u>> gravel</u>	<u>8</u>	<u>-fp-</u>	<u>m</u>	<u>rnd</u>
	<u>sand</u>	<u>18</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
OTHER	<u>> gravel</u>	<u>0</u>			
	<u>sand</u>	<u>51</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY		<u>23</u>			

REMARKS

color Purplish Grey
HCL +

Caliche (pebbles & sand present)

Lithified by silt, clay & CaCO₃

Immature

DEPTH
(FT.)

100

TO

105

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	60	vfp-mp	m	rnd
	sand	28	vfs-vcrs	m	sb rnd
OTHER	> gravel	0			
	sand	8	vfs-vcrs	m	rnd
SILT AND CLAY		4			

REMARKS

color Greyish Black
HCL +

Lithified by silt, clay & CaCO₃

Immature

DEPTH
(FT.)

105

TO

110

ROCK CLASSIFICATION

sandy Gravel & Basalt Flow

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	75	-	l-m	sb rnd-v ang
	sand	15	vfs-vcrs	l	ang
OTHER	> gravel	7	?	m	rnd
	sand	3	vfs-vcrs	m	rnd
SILT AND CLAY		0			

REMARKS

color Greyish Black
HCL -

Slightly Gypsiferous Frosted Quartz

Immature

Total Drilled Depth reported as 110'

Depth
(ft.)

Graphic Log

Sample Description

Plant Coordinates

N 055001

W 075897

Altitude 581

Other Data used in
Interpretation

Driller's Log

Well 699 - 55 - 76

DEPTH
(FT.)

0

TO

10

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>42</u>	<u>vfp-mp</u>	<u>l</u>	<u>sb rnd</u>
<u>sand</u>	<u>15</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER <u>> gravel</u>	<u>8</u>	<u>vfp-mp</u>	<u>l</u>	<u>w rnd</u>
<u>sand</u>	<u>30</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>rnd</u>
SILT AND CLAY	<u>5</u>			

REMARKS

color Brownish GreyHCL +

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

10

TO

50

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT <u>> gravel</u>	<u>45</u>	<u>vfp-crp</u>	<u>l</u>	<u>w rnd</u>
<u>sand</u>	<u>20</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
OTHER <u>> gravel</u>	<u>13</u>	<u>vfp-crp</u>	<u>l</u>	<u>w rnd</u>
<u>sand</u>	<u>17</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY	<u>5</u>			

REMARKS

color Greyish BrownHCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

50

TO

80

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	30	vfp-mp	l	w rnd
	sand	8	vfs-vcrs	m	sb rnd
OTHER	>gravel	28	vfp-mp	m	w rnd
	sand	29	vfs-vcrs	m	sb rnd
SILT AND CLAY		5			

REMARKS

color Greyish BrownHCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

80

TO

220

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	26	vfp-crp	l	rnd
	sand	9	vfs-vcrs	m	sb rnd
OTHER	>gravel	28	vfp-crp	m	w rnd
	sand	32	vfs-vcrs	m	sb rnd
SILT AND CLAY		5			

REMARKS

color Greyish TanHCL +

Slightly Micaceous Frosted Quartz Sample interval 155'-160' missing

Immature

DEPTH
(FT.)

50

TO

80

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT >gravel	30	vfp-mp	l	w rnd
sand	8	vfs-vcrs	m	sb rnd
OTHER >gravel	28	vfp-mp	m	w rnd
sand	29	vfs-vcrs	m	sb rnd
SILT AND CLAY	5			

REMARKS

color Greyish Brown

HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

80

TO

220

ROCK CLASSIFICATION

silty sandy Gravel

	<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT >gravel	26	vfp-crp	l	rnd
sand	9	vfs-vcrs	m	sb rnd
OTHER >gravel	28	vfp-crp	m	w rnd
sand	32	vfs-vcrs	m	sb rnd
SILT AND CLAY	5			

REMARKS

color Greyish Tan

HCL +

Slightly Micaceous Frosted Quartz Sample interval 155'-160' missing

Immature

DEPTH
(FT.)

50

TO

80

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	30	vfp-mp	l	w rnd
	sand	8	vfs-vcrs	m	sb rnd
OTHER	>gravel	28	vfp-mp	m	w rnd
	sand	29	vfs-vcrs	m	sb rnd
SILT AND CLAY		5			

REMARKS

color Greyish Brown

HCL -

Slightly Micaceous Frosted Quartz

Immature

DEPTH
(FT.)

80

TO

220

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel	26	vfp-crp	l	rnd
	sand	9	vfs-vcrs	m	sb rnd
OTHER	>gravel	28	vfp-crp	m	w rnd
	sand	32	vfs-vcrs	m	sb rnd
SILT AND CLAY		5			

REMARKS

color Greyish Tan

HCL +

Slightly Micaceous Frosted Quartz Sample interval 155'-160' missing

Immature

DEPTH
(FT.)

220

TO

235

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	18	vfp-mp	l	sb rnd
	sand	41	vfs-vcrs	m	sb rnd
OTHER	> gravel	5	vfp-mp	m	rnd
	sand	35	vfs-vcrs	m	sb rnd
SILT AND CLAY		1			

REMARKS

color Brownish Grey
HCL -

Slightly Micaceous Unfrosted Quartz

Immature

DEPTH
(FT.)

235

TO

238

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel				
	sand				
OTHER	> gravel				
	sand				
SILT AND CLAY					

REMARKS

color
HCL

Sample missing

Total Drilled Depth reported as 238'

Depth
(ft.)

Graphic Log

Sample Description

greyish brown
grey
grey
grey
dark grey

Plant Coordinates

N 058012

W 024181

Altitude 417

Other Data used in
Interpretation

Driller's Log

Well 699 - 58 - 24

DEPTH
(FT.)

0

TO

5

ROCK CLASSIFICATION

slightly silty gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	15	vfp-mp	l	w rnd
		47	vfs-vcrs	m	sb rnd
OTHER	> gravel sand	7	vfp-mp	m	w rnd
		20	vfs-vcrs	l	sb rnd
SILT AND CLAY		11			

REMARKS

color Greyish BrownHCL +

Slightly Micaceous

Immature

DEPTH
(FT.)

5

TO

20

ROCK CLASSIFICATION

sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel sand	37	vfp-mp	l	w rnd
		20	vfs-vcrs	m	sb rnd
OTHER	> gravel sand	35	vfp-mp	m	w rnd
		6	vfs-vcrs	l	sb rnd
SILT AND CLAY		2			

REMARKS

color GreyHCL -

Immature

DEPTH
(FT.)

20

TO

25

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	<u>8</u>	<u>vfp-mp</u>	<u>1</u>	<u>w rnd</u>
	sand	<u>62</u>	<u>vfs-vcrs</u>	<u>1</u>	<u>sb rnd</u>
OTHER	> gravel	<u>3</u>	<u>vfp-mp</u>	<u>m</u>	<u>w rnd</u>
	sand	<u>23</u>	<u>vfs-vcrs</u>	<u>m</u>	<u>sb rnd</u>
SILT AND CLAY		<u>4</u>			

REMARKS

color Grey
HCL -

Unfrosted Quartz

Immature

DEPTH
(FT.)

25

TO

55

ROCK CLASSIFICATION

silty sandy Gravel

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	> gravel	36	vfp-crp	1	w rnd
	sand	24	vfs-vcrs	1	sb rnd
OTHER	> gravel	29	vfp-crp	m	w rnd
	sand	7	vfs-vcrs	m	sb rnd
SILT AND CLAY		4			

REMARKS

color Grey
HCL -

Slightly Micaceous

Immature

DEPTH
(FT.)

55

TO

60

ROCK CLASSIFICATION

gravelly Sand

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel sand	8	vfp-mp	1	w rnd
		75	vfs-vcrs	1	sb rnd
OTHER	>gravel sand	3	vfp-mp	m	w rnd
		13	vfs-vcrs	m	rnd
SILT AND CLAY		1			

REMARKS

color Dark Grey
HCL -

Immature Slightly Micaceous

Total Drilled Depth reported as 60'

DEPTH
(FT.)

TO

ROCK CLASSIFICATION

		<u>%</u>	<u>SIZE RANGE</u>	<u>SPHERICITY</u>	<u>ROUNDNESS</u>
BASALT	>gravel sand	_____	_____	_____	_____
		_____	_____	_____	_____
OTHER	>gravel sand	_____	_____	_____	_____
		_____	_____	_____	_____
SILT AND CLAY		_____			

REMARKS

color _____
HCL _____