

INTERVAL SHEET

Page 1 of 1

VDMR Well No: 2134

Date rec'd:

Sample Interval: from 4' to: 93'3"

PROP: BLM A-051911

Number of samples: 38

Hole No. : T4-3A

COMP: Minerals Development Corp.
Giles County

Total Depth: 93'3"

COUNTY:

Oil or Gas: Water: Exploratory: X

From-To	From-To	From-To	From-To
4' - 9' (2 spls)	72'11" - 77' (2 spls)	-	-
9' - 10'2"	77' - 82'10" (2 spls)	-	-
10'2" - 18'8" (3 spls)	82'10" - 83'5"	-	-
18'8" - 24'10" (3 spls)	83'5" - 86'3"	-	-
24'10" - 26'0"	86'3" - 87'	-	-
26' - 28'10" (2 spls)	87' - 88'	-	-
28'10" - 32'6" (2 spls)	88' - 88'4"	-	-
32'6" - 33'3"	88'4" - 93'3" (3 spls)	-	-
33'3" - 36'6"	-	-	-
36'6" - 46'7" (2 spls)	-	-	-
46'7" - 49'7"	-	-	-
49'7" - 49'11"	-	-	-
49'11" - 54'10" (2 spls)	-	-	-
54'10" - 56'1"	-	-	-
56'1" - 56'4"	-	-	-
56'4" - 56'7"	-	-	-
56'7" - 57'6"	-	-	-
57'6" - 58'3"	-	-	-
58'3" - 58'9"	-	-	-
58'9" - 59'	-	-	-
59' - 59'3"	-	-	-
59'3" - 59'6"	-	-	-
59'6" - 60'0"	-	-	-
60'0" - 60'4"	-	-	-
60'4" - 62'0"	-	-	-
62'0" - 70'0" (3 spls)	-	-	-
70'0" - 70'2'	-	-	-
70'2" - 70'7"	-	-	-
70'7" - 70'10"	-	-	-
70'10" - 72'11" (2 spls)	-	-	-

INTERVAL SHEET

Page 1 of 1

VDMR Well No: 2134

Date rec'd:

Sample Interval: from 4' to 93'3"

PROP: BLM A-051911
Hole No.: T4-3A

Number of samples: 38

COMP: Minerals Development Corp.

Total Depth: 93'3"

COUNTY: Miles

Oil or Gas: Water: Exploratory: X

From-To	From-To	From-To	From-To
4' - 9' (2 sps)	72'11" - 77' (2 sps)	-	-
9' - 10'2"	77' - 82'10" (2 sps)	-	-
10'2" - 18'8" (3 sps)	82'10" - 83'5"	-	-
18'8" - 24'10" (3 sps)	83'5" - 86'3"	-	-
24'10" - 26'0"	86'3" - 87'	-	-
26' - 28'10" (2 sps)	87' - 88'	-	-
28'10" - 32'6" (2 sps)	88' - 88'4"	-	-
32'6" - 33'3"	88'4" - 93'3" (3 sps)	-	-
33'3" - 36'6"	-	-	-
36'6" - 46'7" (2 sps)	-	-	-
46'7" - 49'7"	-	-	-
49'7" - 49'11"	-	-	-
49'11" - 54'10" (2 sps)	-	-	-
54'10" - 56'1"	-	-	-
56'1" - 56'4"	-	-	-
56'4" - 56'7"	-	-	-
56'7" - 57'6"	-	-	-
57'6" - 58'3"	-	-	-
58'3" - 58'9"	-	-	-
58'9" - 59'	-	-	-
59' - 59'3"	-	-	-
59'3" - 59'6"	-	-	-
59'6" - 60'0"	-	-	-
60'0" - 60'4"	-	-	-
60'4" - 62'0"	-	-	-
62'0" - 70'0" (3 sps)	-	-	-
70'0" - 70'2"	-	-	-
70'2" - 70'7"	-	-	-
70'7" - 70'10"	-	-	-
70'0" - 72'11" (2 sps)	-	-	-

HOLE NUMBER: T4-3A

<u>Depth in feet</u>			<u>Description</u>
<u>From</u>	<u>To</u>	<u>Thickness</u>	
0'	4'	4'	Overburden
4'	9'	5'	Sandstone, maroon, coarse grained, conglomeratic, ferruginous; contains quartz granules and contained vugs; weathered and broken. Includes 8" core loss.
9'	10'2"	1'2"	Sandstone, maroon, coarse grained, conglomeratic, ferruginous, contains maroon shale partings parallel to the bedding planes.
10'2"	18'8"	8'6"	Sandstone, maroon, fine to coarse grained ferruginous, badly weathered and broken. Contains scattered maroon shale partings parallel to the bedding planes. Includes 1'5" core loss.
18'8"	24'10"	6'2"	Sandstone, maroon, coarse grained, conglomeratic ferruginous; contains quartz granules, clay galls and contained vugs, weathered and broken; contains maroon shale partings parallel to the bedding planes.
24'10"	26'	1'2"	Shale maroon, weathered, includes 1'1" core loss.
26'	28'10"	2'10"	Sandstone, maroon, fine grained to medium grained, ferruginous; contains abundant maroon shale partings and maroon clay galls; broken and weathered.
28'10"	32'6"	3'8"	Sandstone, maroon, coarse grained, ferruginous conglomeratic, contains quartz granules and vugs weathered.
32'6"	32'10"	4"	Sandstone, maroon, fine grained, ferruginous contains maroon shale partings, broken.
32'10"	33'3"	5"	Shale, maroon, broken.
33'3"	33'5"	2"	Shale, pale yellowish brown.
33'5"	36'	7"	Shale pale gray to pale grayish green, unctuous, weathered.
36'	36'6"	6"	Shale, yellowish brown to maroon.
36'6"	46'7"	10'1"	Shale, pale olive drab to pale grayish green, contains partings and lenses of yellowish brown shale, unctuous, includes 2'6" core loss.
46'7"	49'7"	3'	Shale, pale grayish green to pale grayish lavender, contains scattered partings of yellowish brown shale, unctuous.

<u>Depth in Feet</u>			<u>Description</u>
<u>From</u>	<u>To</u>	<u>Thickness</u>	
49'7"	49'11"	4"	Sandstone, yellowish brown fine grained.
49'11"	52'	2'1"	Shale, pale grayish green, contains lenses and partings of yellowish brown shale, includes 5" core gain.
52'	53'9"	1'9"	Shale, pale olive drab.
53'9"	54'4"	7"	Shale, pale olive drab, sandy.
54'4"	54'6"	2"	Sandstone, pale gray, shaly, fine grained.
54'6"	54'10"	4"	Shale, pale olive drab.
54'10"	56'1"	1'3"	Sandstone, gray, fine grained, includes 4" core loss.
56'1"	56'4"	3"	Shale, pale greenish gray to olive drab.
56'4"	56'7"	3"	Sandstone, maroon, fine grained.
56'7"	57'6"	11"	Shale, pale olive drab to yellowish orange.
57'6"	58'3"	9"	Sandstone, grayish maroon, fine grained.
58'3"	58'9"	6"	Shale, pale grayish green to pale olive drab.
58'9"	59'	3"	Sandstone, grayish maroon, fine grained.
59'	59'3"	3"	Shale, pale gray.
59'3"	59'6"	3"	Shale, maroon, contains partings of maroon, fine grained sandstone.
59'6"	60'	6"	Shale, grayish green to maroon.
60'	60'4"	4"	Sandstone, pale gray, fine grained.
60'4"	62'	1'8"	Shale and intercalated sandstone; shale, maroon; sandstone maroon, fine grained, includes 1' core loss.
62'	70'	8'	Sandstone, maroon, fine to medium grained, contains abundant partings of maroon shale parallel to the bedding planes.
70'	70'2"	2"	Sandstone, pale gray, fine grained.
70'2"	70'7"	5"	Sandstone, maroon, fine grained, ferruginous, contains maroon shale partings.

Depth in feet			Description
From	To	Thickness	
70'7"	70'10"	3"	Sandstone, grayish maroon, fine grained.
70'10"	72'11"	2'1"	Sandstone, maroon, fine grained, ferruginous.
72'11"	77'	4'1"	Shale, maroon, contains scattered interbeds and partings of maroon, fine to medium grained ferruginous sandstone (includes 1'6" core loss).
77'	82'10"	5'10"	Shale, pale greenish gray, contains interbeds intercalations and irregular lenses of gray fine grained quartzitic sandstone.
82'10"	83'5"	7"	Sandstone, grayish green, fine grained quartzite.
83'5"	86'3"	2'10"	Shale, pale greenish gray, contains interbeds and irregular lenses of gray, fine grained quartzitic sandstone.
86'3"	87'	9"	Sandstone, gray to pale grayish white, fine grained, quartzitic, contains irregular partings of grayish black, shale parallel to the bedding planes. Includes 4" core gain.
87'	87'3"	3"	Shale, grayish black.
87'3"	88'	9"	Sandstone, gray to olive gray, fine grained.
88'	88'4"	4"	Shale, gray, contains rust yellow partings.
88'4"	93'3"	4'11"	Sandstone, gray, fine grained, quartzitic, includes 3" core loss.

Bottom of hole.

Log of Split Core

Date: Wednesday, November 8, 1961

<u>Depth in feet</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
0	4'	Overburden
Sample 1 (4' - 7'9")		
4'	7'9"	Sandstone, maroon to grayish maroon, coarse grained, conglomeratic, contains clay galls and quartz granules, slightly ferruginous, weathered and broken.
7'9"	9'	Shale, pale drab maroon, weathered contains interbeds of maroon coarse grained sandstone, weathered and broken; includes 8" core loss.
Sample 2 (9' - 18'6")(Note: This not so good but sampled anyhow)		
9'	18'6"	Sandstone, drab grayish maroon, fine grained to medium grained, slightly ferruginous, contains abundant maroon shale partings and interbeds parallel to the bedding planes; contains maroon clay galls; badly broken and weathered. Includes 1'5" core loss.
Sample 3 (18'6" - 24'9") (Note: This not good either but sampled)		
18'6"	24'9"	Sandstone, drab maroon, coarse grained, slightly ferruginous; conglomeratic, contains quartz granules and contained vugs; weathered and broken, contains scattered maroon shale partings.
24'9"	26'	Shale, maroon, weathered; includes 1'1" core loss.
26'	28'10"	Sandstone and shale, sandstone maroon, fine to medium grained slightly ferruginous; contains abundant maroon shale partings and maroon clay galls.
Sample 4 (28'10" - 32'6")		
28'10"	32'6"	Sandstone, maroon, coarse grained, slightly ferruginous, conglomeratic; contains quartz granules and contained vugs; weathered and friable.
32'6"	32'10"	Sandstone, maroon, fine grained, broken. Contains abundant maroon shale partings.
32'10"	62'	See log.

<u>Depth in feet</u>		<u>Description</u>
<u>From</u>	<u>To</u>	
Sample 5 (62' - 68'5")		
62'	68'5"	Sandstone, maroon, fine to medium grained, ferruginous, contains partings of maroon shale parallel to the bedding planes.
68'5"	70'	Shale, maroon, contains abundant intercalations and interbeds of maroon fine grained, slightly ferruginous sandstone.
70'	70'2"	Sandstone, pale gray, fine grained.
70'2"	70'7"	Sandstone, maroon, fine grained slightly ferruginous contains maroon shale partings.
70'7"	70'10"	Sandstone, grayish maroon, fine grained.
Sample 6 (70'10" - 72'11")		
70'10"	72'11"	Sandstone, pale grayish maroon to maroon, fine grained, ferruginous.
72'11"	93'3"	See log.

End of Sampling