

ARCO
EVACUATION CREEK #1

Sec. 36-T10S-R24E
Uintah County, Utah
El 5580' Ground

CORE DESCRIPTION

Core #1

447 - 467 sec. 20', Marlstone, dark chocolate brown, organic, w/occ streaks of thin (1/2") tuffs FRS

Core #2

467 - 487 Cut 20' rec 20'

467 - 487 Marlstone, dark chocolate brown, organic, w/hairline streaks tan 1" tuff @ 476'8"

Core #3

487 - 502'5" Cut 17'5", rec 15'5"

487 - 494 Marlstone, dark chocolate brown, organic w/scattered tuff streaks up to 1/2" thick

494 - 496 Marlstone, dark gray-brown, organic, 1/2" tuff @ 494'

496 - 501 Marlstone, dark chocolate brown, organic, thin black streaks scattered tuff streaks less 1/2"

501 - 502'5" Marlstone, dark chocolate brown

Core #4

502'5" - 522'5" Cut 20', rec 20'

502'5" - 505 Marlstone, organic, dark chocolate brown, w/few scattered hairline streaks black, few 1/2" tuff streaks

505 - 509'3" Marlstone, organic, dark gray-brown

509'3" - 510'11" Marlstone w/s/red-brown

510'11" - 511'8" Marlstone, organic, dark red-brown w/thin black bands

511'8" - 518'6" Marlstone, dark red-brown, dark gray-brown, scatt 1/2" tuff bands

518'6" - 519 Marlstone, dark red-brown within black bands

519 - 522'5" Marlstone, dark red-brown, dark gray-brown

<u>Core #2</u>	522'5" - 539'11" Out 17'6", rec 17'4"
522' 5" - 424' 3"	Marlstone, dark chocolate brown to red-brown, w/dark gray-brown
524' 3" - 525	Marlstone, dark red-brown w/thin black bands
525 - 530' 3"	Marlstone, dark red-brown, dark gray-brown
530' 3" - 531' 4"	Marlstone, dark red-brown w/black bands, 1" tuff bed @ 530'4"
531' - - 535' 8"	Marlstone, dark red-brown, dark gray-brown, 1" saturated tuff @ 531'7", 1/2" tuff @ 532'10"
535' 8" - 538'10"	Marlstone, dark red brown w/occasional black band, scattered 1/2" saturated tuff bands
538'10" - 539	tuff, black tar saturated
539 - 539' 9"	Marlstone, dark red-brown w/occasional black band
539' 9" - 539'11"	lost
<u>Core #6</u>	539'11" - 559'11" Out 20', rec 20'
539'11" - 542' 7"	Marlstone, dark red-brown, dark gray, 1/2" saturated tuff @ 540'4", 1/2 tuff @ 540'5", 1" saturated tuff @ 540'9"
542' 7" - 544'2"	Marlstone, dark red-brown w/black bands, 1" tuff @ 544'1'
544' 2" - 545'1"	Marlstone, dark red-brown, dark gray
545'1" - 547'10"	Marlstone, medium gray, w/tan and dark red-brown bands
547'10" - 549'2"	Marlstone, dark red-brown, dark gray
549'2" - 552'11"	Marlstone aa w/thin band v. dark brown and black, 1" tuff saturated @ 552'2", 1" tuff saturated @ 552'10"
552'11" - 554'4"	Marlstone, dark gray w/dark brown bands
554'4" - 554'8"	Tuff, buff, saturated, bleeding oil, contorted marlstone bands
554'8" - 559'11"	Marlstone, dark gray, dark gray-brown w/scattered red-brown bands, 1 1/2" black tuff, saturated, bleeding oil @ 554'10", 3" tuff, black, saturated, bleeding oil @ 557'6"

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Core #7 559'11" - 575'11" Out 15', rec 15'11"

559'11"-562' 5" Marlstone, dark gray, dark red-brown, 1" tuff, black, saturated
3 560'10"

563 - 575'10" Marlstone, dark red-brown, chocolate brown, gray-brown, 1/2"
tuff @ 563'7", 1/2" tuff @ 566'5", 2" tuff @ 570'2", 4" tuff
@ 571'8", 1/2" tuff @ 574'3", 1/2" tuff @ 574'11"

575'10"-575'11" Lost

Core #8 575'11" - 595'11" Out 20', rec 20'

575'11"-589' 3" Marlstone, dark red-brown, dark gray w/scattered tuff bands
1/2" tuff @ 577'10 1/2", 1" tuff @ 579'10"

489' 3"-591' 4" Tuff, buff, few thin contorted bands marlstone
(Upper waxy bed)

591' 4"-595'11" Marlstone, shattered, dark red-brown

Core #9 595'11" - 615'11" Out 20', rec 19

595'11"-600' 3" Marlstone, dark red-brown, dark gray

600' 3"-607' 3" Marlstone aa w/ thin tan sands

607' 6"- 612' 3" Marlstone, dark chocolate brown

612' 3"- 613' 3" Marlstone, dark red-brown w/black bands

613' 6"-615 Marlstone, dark red-brown, dark gray w/s/ thin tan bands

615 - 615'11" Marlstone, tan & Med gray/ w/dark gray & dark gray-brown bands

Hit gas zone @ 634' (est. top Mahogany Zone @ 632+)

Core #11 615'11" - 635' Out 19'1", rec

615'11"-618'14" Marlstone, light tan & light gray, banded, becoming organic
toward

618'11"-618' 8" Oil shale, dark mahogany brown

618' 8"-621' 3" Marlstone, organic, red-brown, banded, grading down to light tan
marlstone

621' 0" - 622' 2" Marlstone, organic, deep red-brown, 1/4" buff band @ top
622' 2" - 629 ("A" Groove); Marlstone, tan and gray banded, becoming predominately tan toward base
629 - 633' 5' 11" Marlstone, medium gray, banded with tan (Lost bottom of core - gas blowout at 634')

Core #12

635' - 655'

635 - 636 Oil shale, very dark brownish gray
636 - 637' 5" Marlstone, organic, medium brown (Top Mahogany)
637' 5" - 638' 5" Oil shale, very dark gray, banded with dark brown
638' 5" - 642' 6" Marlstone, organic, brown gray banded 1/2" buff @ 642'
642' 6" - 646 Oil shale, banded very dark gray and dark brown + 4" tuff, tar saturated @ 643'; 2" tuff, tar saturated @ 643' 10", oil shale between contorted
646 - 649 Marlstone, organic, red brown
649 - 655 Marlstone, organic, gray brown w/tan stringers, leaner than above

Core #13

655' - 675', rec 17' 6"

655 - 659 Marlstone, gray and brown banded w/4" hard tuff streak @ 656' 2" (Mahogany Marker)
659 - 660' 6" Marlstone, organic, red brown w/gray bands
660' 6" - 663 Oil shale, dark red brown, becoming leaner toward bottom
663 - 665 Marlstone, organic, red brown
665 - 671' 10" Oil shale, deep red brown w/gray streaks, 3' tuff, gray contorted @ 666' 2" @ 1" lean streak @ 669' 2"
671' 10" - 672' 6" Marlstone, organic, rich red brown

Core #14

675' - 693', cut 18', rec 20 1/2" (excess from above core)

672' 6" - 674' 10" Oil shale, black w/deep brown streaks, 1' tuff @ 673' 8"

674' 10" - 675' 11"	Marlstone, organic, dark red brown
675' 11" - 676' 4"	Oil shale, black banded w/red brown
676' 4" - 677	Marlstone, organic, dark red brown
677 - 677' 11"	Oil shale, black w/deep red brown tinge, banded toward bottom
677' 11" - 680' 8"	Marlstone, organic, reddish brown banded w/gray
680' 8" - 681' 3"	Oil shale, deep reddish brown
681' 3" - 683' 6"	Marlstone, organic, banded deep brown red and tan, two then, irregular buff band, @ 683'
683' 6" - 687	Oil shale, deep reddish brown banded
687 - 688' 4"	Marlstone, organic, red brown & tan banded, w
688' 4" - 689' 1"	Marlstone, tan, banded
689' 1" - 689' 5"	Oil shale, dark brown banded
689' 5" - 691	Marlstone, tan banded
691 - 693	Marlstone, organic, deep red brown, becoming lean toward base
<u>Core #12</u>	693' - 713'
693 - 697	Marlstone, tan & buff banded, occ organic streaks
697 - 698' 7"	Marlstone, organic red brown banded w/lighter streaks
698' 7" - 701' 3"	Marlstone, tan banded, w/occasional organic streaks
701' 3" - 703' 6"	Marlstone, organic, medium brown to reddish, banded
703' 6" - 708	Marlstone, light tan w/darker bands
708 - 709	Oil shale, dark reddish brown, banded, w/1" buff @ 708' 8", contorted
709 - 710' 3"	Marlstone, organic, reddish brown, banded
710' 3" - 711' 1"	Marlstone, light tan & buff banded, 1" contorted buff @ 710' 10"
711' 1" - 713	Marlstone, buff w/light tan bands

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<u>Core #16</u>	713' - 731', rec 10'
713' - 715' 4"	Marlstone, buff & light tan w/occasional dark banding
715' 4" - 715' 8"	Tuff, gray, w/some tar saturation
715' 8" - 717'	Marlstone, gray brown, w/1" buff @ 716'9"
717' - 717'11"	Marlstone, organic, deep red brown & black w/lighter bands
717'11" - 721'	Marlstone, gray, laminated
721' - 722' 2"	Marlstone, organic, banded deep red brown w/light streaks
722' 2" - 727' 4"	Marlstone, light tan & buff
727' 4" - 728' 9"	Tuff, gray, w/thin streaks of contorted oil shale
(Lower Wavy Bed)	
728' 9" - 729' 1"	Oil shale, dark red brown to black
729' 1" - 731'	Marlstone, tan w/dark brown laminations

615' - 615'11"

615'11" - 731'

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