

ings overview



Inspection Photos

Location
Well 081-06472
Inspection
Date:6/26/2023

All Photos taken
by Kris Neidel

Figure #1, Overview of; API:05-081-06472 Elk Springs #3 well, Settling Pond (pit #116686) and Current discharge point.





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Figure #2 Same as Figure #1 with addition of Elk Springs #1 (API: 05-081-06408 well and area identified in original discharge permit as "Discharge 001"



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Photo #1 Area believed to be the pond identified as “Discharge 001” in the original Produced Water Discharge permit CO-0039683 “COGCC doc #657311”. The pond appeared clear and free of hydrocarbon.



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Photo #2 Close up of lower pond, near 40.34784,-108.445479. No matted vegetation or Hydrocarbon was observed in this pond.





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Photo #3 Water coming across the road. This is near the access road to lower pond. This water was traced up to it's source, the water is from the Produced Water discharge at the Elk Springs #3 API:05-081-06472. Note: water across road had apparent salt staining.



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Photo #4 Wildlife track in soft dirt from water. Note: apparent salt staining.



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Photo #5 Area where discharge water is crossing the road. Note: apparent salt staining.





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Photo #6 Looking down valley at discharge path on road to Elk Springs #1. The Elk Springs #1 API: 05-081-06408 is behind the Camera in this photo.



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Photo #7 Pooling water on the west side of access road to the #1 (API:05-081-06408) well. Note: Tank battery for the Elk Springs #3 well is observable in the center of photo just below the tree line (orange arrow point). Note: apparent salt staining.



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Photo #8 Looking southwest from the #1 (API:05-081-06408) pad at the upper pond. This pond, at one time was a part of the discharge from the #3 (API:05-081-06472) well. Note: the lower pond is observable in this photo.





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Photo #9 Looking southwest from the #1 (API:05-081-06408) pad at the upper pond. This is a close up of the western most side of pond. This pond used to be a part of the discharge from the #3 (API-05-081-06472) well.



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Photo #10 Looking southwest from the #1 (API:05-081-06408) pad at the upper pond. This is a close up of the eastern part of pond. This pond used to be a part of the discharge from the #3 (API:05-081-06472) well.





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Photo #11 Flow path of discharge water, COGCC staff followed the spill path from the access road to the Elk Springs #1 (API:05-081-06408) well to the discharge point. Note: apparent salt staining.



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Photo #12 Flow path of discharge water, COGCC staff followed the spill path from the access road to the Elk Springs #1 (API:05-081-06408) well to the discharge point. Note: apparent salt staining.





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Photo #13 Flow path of discharge water, COGCC staff followed the spill path from the access road to the Elk Springs #1 (API:05-081-06408) well to the discharge point. Note: apparent salt staining.



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Photo #14 Flowline on surface, it appeared that no fluid was currently in this line.



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Photo #15 Pooled discharge water along the flow path. Approximate location is 40.351947,-108.444333. Observed at this location; algae growth, non clear water, strong sulfur odor, apparent salt staining.



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Photo #16 area near Photo #15. part of the flow path. Apparent weathered hydrocarbon was observed on rocks.





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Photo #17 Part of the flow path at bottom of photo, upstream of Photo #15. Apparent hydrocarbon observed on rocks in center of photo.



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Photo #18 Flow path of discharge water.



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Photo #19 Part of the spill path, upgrade of photo 18. (Note: NO photo 20)





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Photo #21 Looking up at area of current discharge. The discharge can be seen just below the gravel. This gravel leads to what this document refers to a the “dirt ridge”. A close up of discharge area can be found in Photo #24 and Photo #25





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Photo #22 Discharge path was in contact with old debris. Apparent hydrocarbon was observed on rocks. Note, trash/debris, apparent hydrocarbon on rocks, algae growth.





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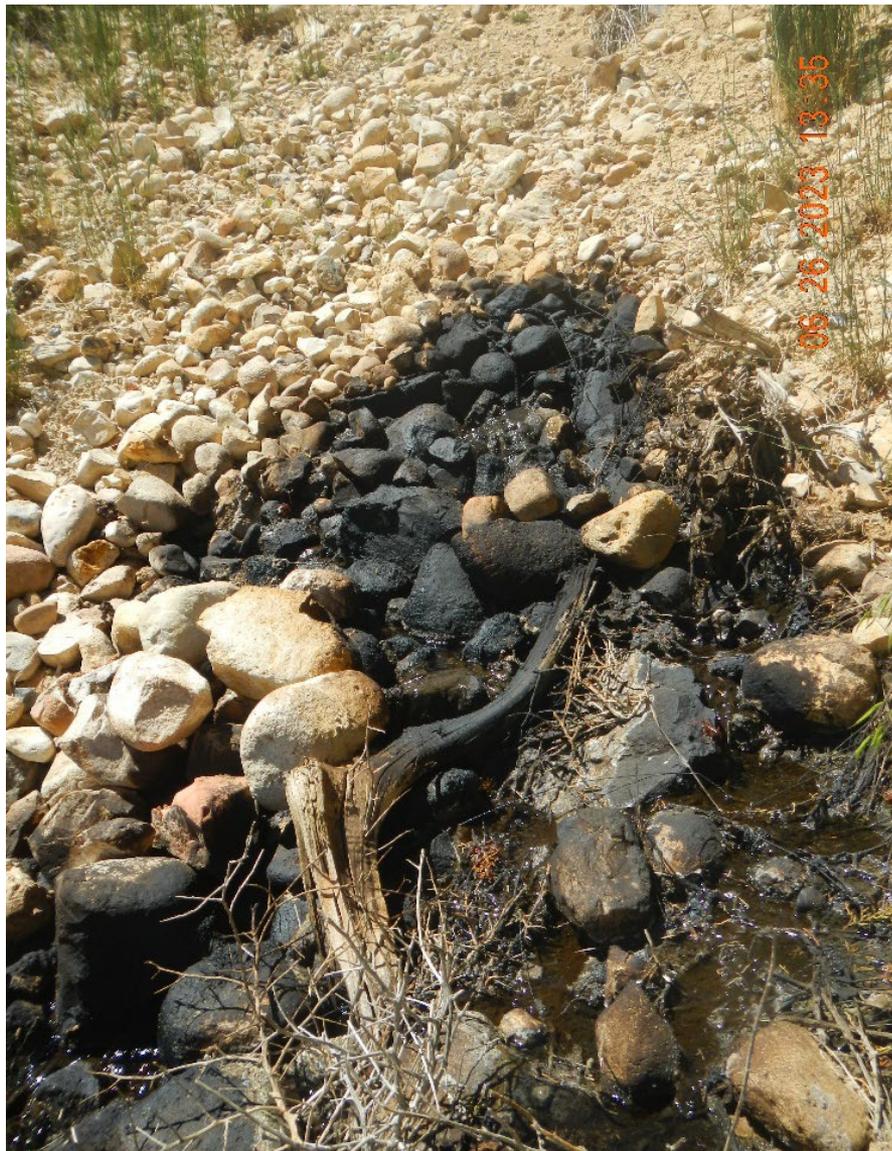
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Photo #23 discharge path near current point of discharge. Arrow shows discharge.



Photo #24 Current discharge point. Immediately below the “dirt ridge”. Fluids appear to be coming from a seep.
Approximate location
40.352743,-108.444347.
Apparent hydrocarbon staining
on rocks.



Inspection Photos

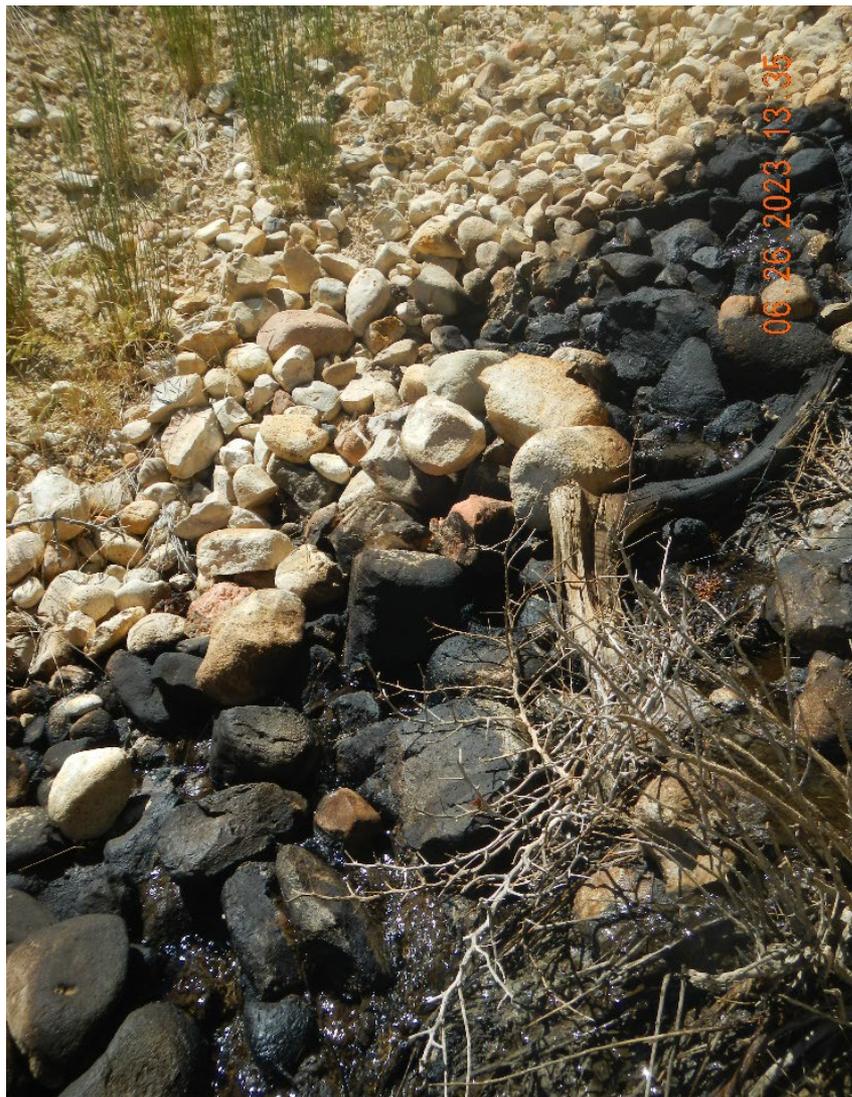
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Photo #25 Current discharge point. Immediately below the “dirt ridge”. Fluids appear to be coming from a seep. Approximate location 40.352743,-108.444347. Apparent hydrocarbon staining on rocks.



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Photo #26 Photo is looking uphill from the discharge along the dirt ridge.





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Photo #27 Trash found on ground near Elk Springs #3 API:05-081-06472 pad.



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Photo #28 Photo taken south west of Elk Springs #3 (Loc 311768), just south of the tank battery. Desktop review of documents indicate that the Produced Water discharge had a “settling pond”, Pit #116686. The following was observed; remaining fencing, piping and berms and other O&G remnants. The settling pond is in the depression just south of the tank battery.





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Photo #29 Pipe going down hill from the settling pond (Pit #116686).





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Photo #30 Looking mostly west across the settling pond area (Pit #116686).



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Photo #31 looking across the southern boarder of the settling pond (Pit # 116686).



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Photo #32 looking north west across bottom of settling Pond (Pit # 116686). Note: oil tanks at top right of photo.





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Photo #35 Photo taken from below and southwest of pad. Note: dirt ridge (arrow), Elk Springs #3 well pad is to the left of photo.





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Photo #36 Photo taken from east of Elk Springs #3 (Api:05-081-06472)pad, below. Note: pumping unit (center of photo) and dirt ridge (in upper ¼ of photo).





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Photo #37 Close up of current discharge point. Photo taken from hill, looking south east, above discharge.





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Photo #38 Center of photo is the discharge point. Note Dirt ridge on left of photo.





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Photo #39 Eastern end of dirt ridge. The dirt ridge here is just above current discharge point.



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Photo #41 Photo of , Elk Springs #3 tank battery from below grade. Note; dirt ridge on right.





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Photo #42 Photo Taken 40 feet off , Elk Springs #3 pad. Dirt ridge in left-center of photo is the dirt ridge seen in areal image.





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Photo #43 East side of the tank battery on , Elk Springs #3 , water treatment equipment.





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Photo #44 Oil storage tanks on the right.



Photo #45 open top produced water treatment tanks.

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Photo #46 Well sign at Tank Battery , Elk Springs #3 . Note: Oil spilled on sign.





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Photo #47 #3 wellhead, well was PR at time of inspection.

