In [23]:
```
from sklearn.cluster import KMeans
import numpy as np
import matplotlib.pyplot as plt
from skimage.segmentation import felzenszwalb, mark_boundaries
```

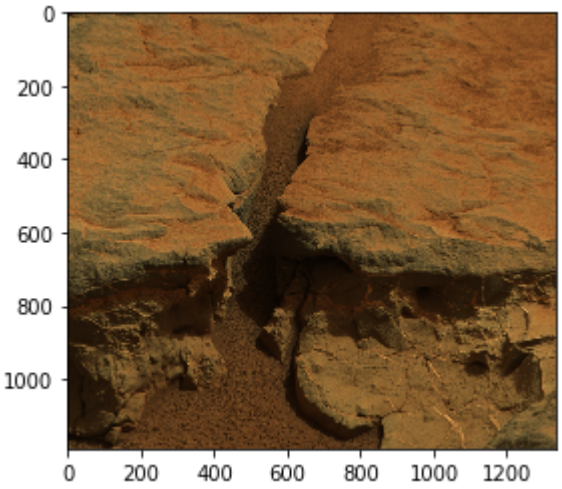
In [16]:
```
p1 = np.load('0153MR00084900002012 65E01_DRLX.npy',allow_pickle=True)
```

In [17]:
```
p1 = np.delete(p1, 0, 0)
```

In [18]:
```
p1.shape
```

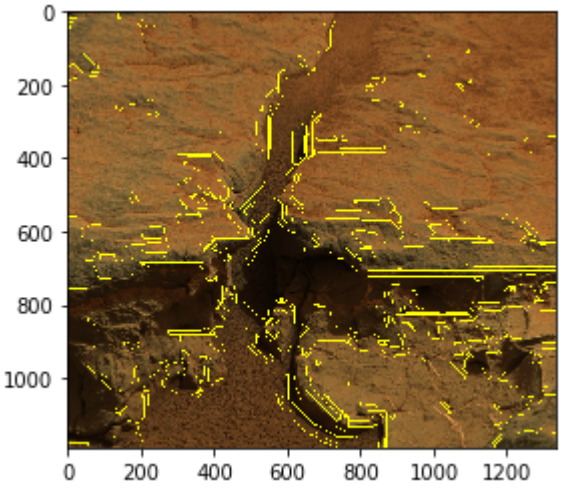
Out[18]:
```
(1191, 1335, 3)
```

In [33]:
```
imgplot = plt.imshow(p1)
```



In [185]:
```
segments = felzenszwalb(p1, scale=32, sigma=12.5, min_size=15)
```

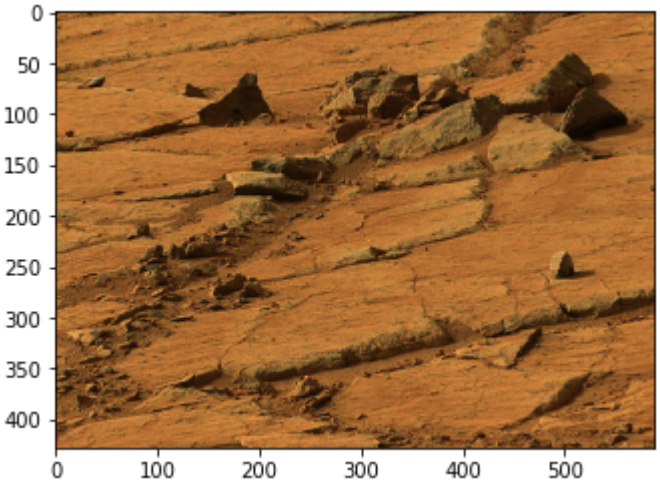
In [186]:
```
imgplot = plt.imshow(mark_boundaries(p1, segments))
```



In [35]:
```
p2 = np.load('0172ML0009240000104879E01_DRLX.npy',allow_pickle=True)
p2 = np.delete(p2, 0, 0)
p2.shape
```

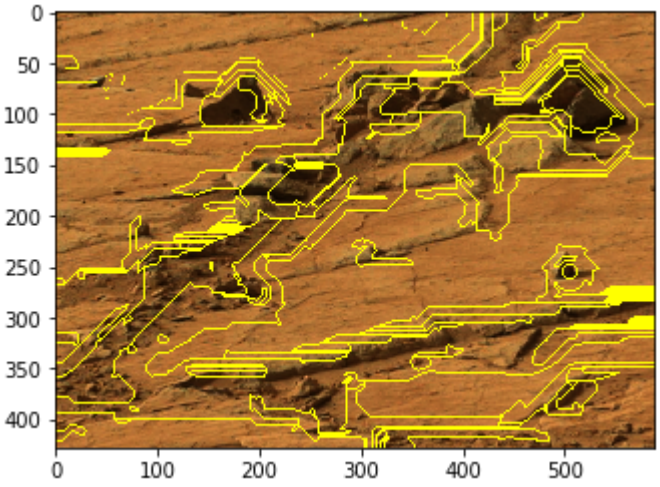
Out[35]: (428, 589, 3)

In [36]:
```
imgplot = plt.imshow(p2)
```



In [165]:
```
segments = felzenszwalb(p2, scale=20.0, sigma=10.95, min_size=2)
```

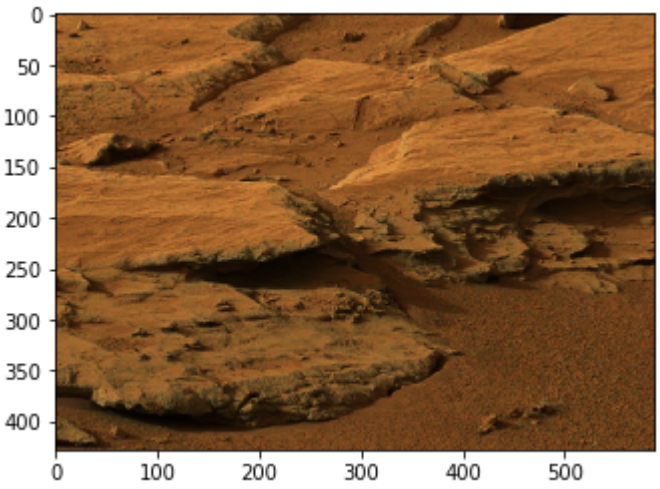
In [166]:
```
imgplot = plt.imshow(mark_boundaries(p2, segments))
```



In [87]:
```
p3 = np.load('0172ML0009240340104913E01_DRLX.npy',allow_pickle=True)
p3 = np.delete(p3, 0, 0)
p3.shape
```

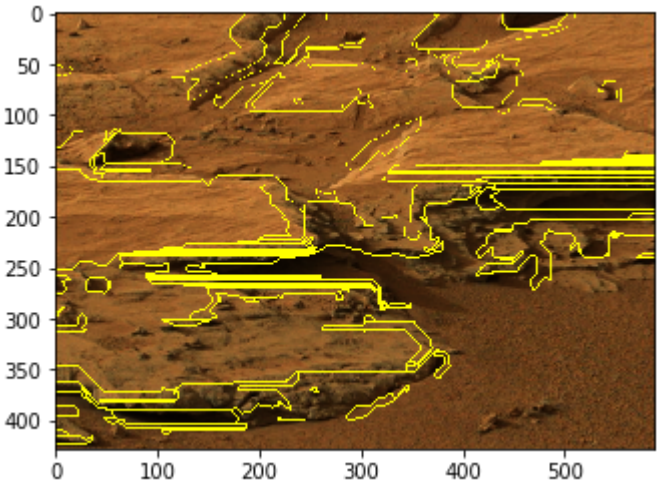
Out[87]: (428, 589, 3)

In [90]:
```
imgplot = plt.imshow(p3)
```



In [159]:
```
segments = felzenszwalb(p3, scale=50.0, sigma=8, min_size=20)
```

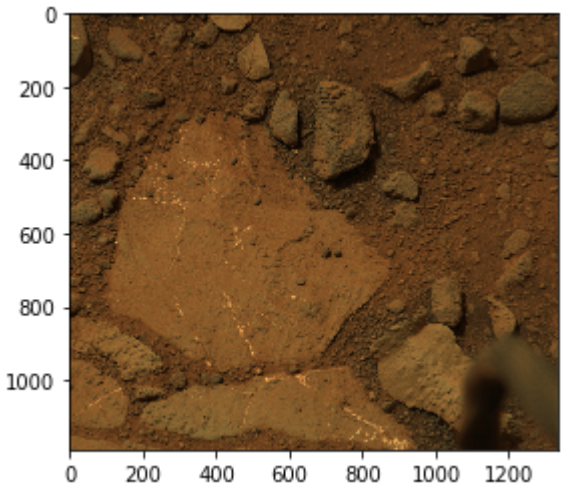
In [160]:
```
imgplot = plt.imshow(mark_boundaries(p3, segments))
```



In [93]:
```
p4 = np.load('0270MR0011860360203259E01_DRLX.npy',allow_pickle=True)
p4 = np.delete(p4, 0, 0)
p4.shape
```

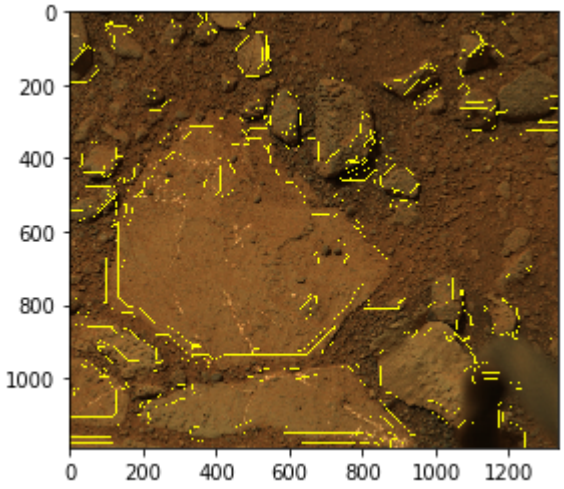
Out[93]:
```
(1191, 1335, 3)
```

In [94]:
```
imgplot = plt.imshow(p4)
```



In [121]:
```
segments = felzenszwalb(p4, scale=20.75, sigma=18.95, min_size=3)
```

In [122]:
```
imgplot = plt.imshow(mark_boundaries(p4, segments))
```



In [ ]:
```

```