Example report for Well Production

powered by Jupyter.org on Openshift

In [1]:
```
%matplotlib inline

import pandas as pd
df = pd.read_csv("./data/winkler_vol.csv")
print(df.shape)
```

```
(109, 4)
```

In [2]:
```
print(df.columns)
```

```
Index(['Months', 'Oil Rates', 'Gas Rates', 'Water Rates'], dtype='object')
```

In [3]:
```
print(df.dtypes)
```

```
Months           int64
Oil Rates      float64
Gas Rates      float64
Water Rates    float64
dtype: object
```

In [4]:
```
print (df.loc[[0,50,100]])
```

```
     Months  Oil Rates  Gas Rates  Water Rates
0         1    34135.0   132199.0      58030.0
50       51     5578.0    20877.0       9483.0
100     101      615.0     1531.0       1046.0
```

In [5]:
```
oil= df['Oil Rates']
gas = df['Gas Rates']
water = df['Water Rates']
```

In [6]:
```
print(oil.describe())
```

```
count      106.000000
mean      7304.650943
std       6759.720675
min        264.000000
25%       2331.000000
50%       5231.000000
75%      10131.000000
max      34135.000000
Name: Oil Rates, dtype: float64
```

In [7]:
```
print(gas.describe())
```

```
count       106.000000
mean      27607.603774
std       26351.033463
min         163.000000
25%        8220.000000
50%       19523.500000
75%       38626.500000
max      132199.000000
Name: Gas Rates, dtype: float64
```

In [8]:
```
print(water.describe())
```

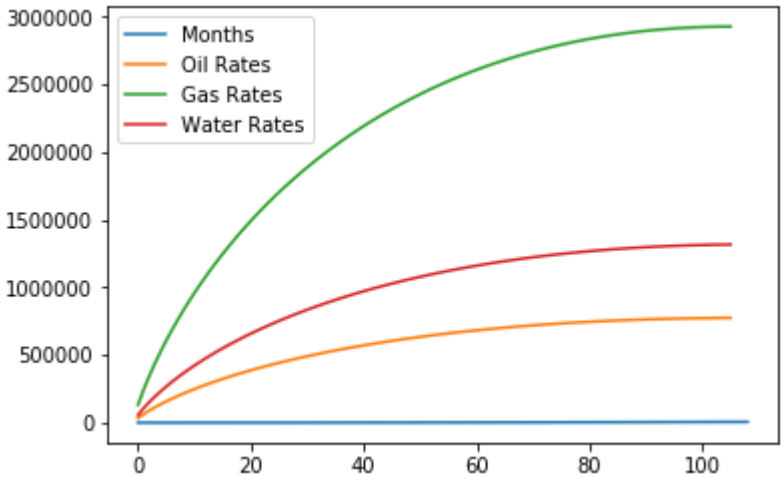
```
count      106.000000
mean     12417.915094
std      11491.503289
min        450.000000
25%       3962.750000
50%       8892.500000
75%      17222.750000
max      58030.000000
Name: Water Rates, dtype: float64
```

In [9]:
```
import matplotlib.pyplot as plt
```

In [10]:
```
df = df.cumsum()
```

In [11]:
```
plt.figure(); df.plot();
```

```
<Figure size 432x288 with 0 Axes>
```



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