EXHIBIT NO. ___(CJC-5)
DOCKET NO. UE-04____/UG-04____
2004 PSE GENERAL RATE CASE
WITNESS: DR. CHARLES J. CICCHETTI

BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION

WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION, **Complainant,** **v.** **PUGET SOUND ENERGY, INC.,** **Respondent.**	**Docket No. UE-04____** **Docket No. UG-04____**

FOURTH EXHIBIT TO DIRECT TESTIMONY OF DR. CHARLES J. CICCHETTI (NONCONFIDENTIAL) ON BEHALF OF PUGET SOUND ENERGY, INC.

APRIL 5, 2004

```
# 1
# WITH INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(1) (djia_ret-riskfree)] if[(compid==11)]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated          Standard          t-
 Variable         Coefficient          Error          Statistic

      (1)          -6.10202e-002       0.10366          -0.58865
 (djia_re           0.60170            0.23670           2.54206


Number of Observations                 11
R-squared                               0.41793
Corrected R-squared                     0.35326
Sum of Squared Residuals                1.02572
Standard Error of the Regression        0.33759
Durbin-Watson Statistic                 2.12736
Mean of Dependent Variable             -0.11090
```

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# 2
# WITHOUT INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(djia_ret-riskfree)] if[(compid==11)]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated          Standard          t-
 Variable         Coefficient          Error          Statistic

 (djia_re           0.62807            0.22470          2.79520


Number of Observations                 11
R-squared                               0.39552
Corrected R-squared                     0.39552
Sum of Squared Residuals                1.06521
Standard Error of the Regression        0.32638
Durbin-Watson Statistic                 2.00091
Mean of Dependent Variable             -0.11090
```

```
# 3
# WITH INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(1) (sp5_ret-riskfree)] if[(compid==11)]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)          -2.76935e-002         0.10019             -0.27640
 (sp5_ret           0.64788              0.22371              2.89610


Number of Observations                  11
R-squared                                0.48238
Corrected R-squared                      0.42487
Sum of Squared Residuals                 0.91214
Standard Error of the Regression         0.31835
Durbin-Watson Statistic                  2.04895
Mean of Dependent Variable              -0.11090
```

4

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# WITHOUT INTERCEPT, S&P 500 AS MARKET RATE

   # DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
   # IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

   reg dep[(comp_ret-riskfree)] ind[(sp5_ret-riskfree)] if[(compid==11)]


   ********* ORDINARY LEAST SQUARES ESTIMATION *********

   Dependent Variable:  (comp_re

   Independent        Estimated            Standard              t-
    Variable         Coefficient            Error             Statistic

    (sp5_ret           0.66561              0.20418             3.25995


   Number of Observations                 11
   R-squared                               0.47799
   Corrected R-squared                     0.47799
   Sum of Squared Residuals                0.91989
   Standard Error of the Regression        0.30330
   Durbin-Watson Statistic                 1.99097
   Mean of Dependent Variable             -0.11090
```

```
# 5
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-t_bill)] ind[(1) (djia_ret-t_bill)] if[(compid==11)]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)          -4.84089e-002         0.10287             -0.47058
 (djia_re           0.60878              0.23585              2.58126


Number of Observations                  11
R-squared                                0.42539
Corrected R-squared                      0.36155
Sum of Squared Residuals                 1.03270
Standard Error of the Regression         0.33874
Durbin-Watson Statistic                  2.10580
Mean of Dependent Variable              -8.01590e-002
```

```
# 6
# WITHOUT INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-t_bill)] ind[(djia_ret-t_bill)] if[(compid==11)]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated          Standard          t-
 Variable         Coefficient          Error          Statistic

 (djia_re           0.62205            0.22485          2.76646


Number of Observations                 11
R-squared                               0.41126
Corrected R-squared                     0.41126
Sum of Squared Residuals                1.05811
Standard Error of the Regression        0.32529
Durbin-Watson Statistic                 2.03080
Mean of Dependent Variable             -8.01590e-002
```

EQUATIONS

```
# 1
# WITH INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(1) (djia_ret-riskfree)] if[(compid==11)]


# 2
# WITHOUT INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(djia_ret-riskfree)] if[(compid==11)]



# 3
# WITH INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(1) (sp5_ret-riskfree)] if[(compid==11)]


# 4
# WITHOUT INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(sp5_ret-riskfree)] if[(compid==11)]



# 5
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-t_bill)] ind[(1) (djia_ret-t_bill)] if[(compid==11)]


# 6
# WITHOUT INTERCEPT, T-BILL AS RISK FREE RATE
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# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-t_bill)] ind[(djia_ret-t_bill)] if[(compid==11)]


quit
```

```
# 1
# WITH INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(1) (djia_ret-riskfree)]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)          -2.77622e-002         2.08699e-002        -1.33025
 (djia_re           0.78139              4.76536e-002        16.39728


Number of Observations                 671
R-squared                               0.28668
Corrected R-squared                     0.28562
Sum of Squared Residuals                1.88514e+002
Standard Error of the Regression        0.53083
Durbin-Watson Statistic                 2.04361
Mean of Dependent Variable             -9.25316e-002
```

```
# 2
# WITH INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-riskfree)] ind[(1) (djia_ret-riskfree) de west norestru]
coef[b02] pred[p02]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re
```

Independent Variable	Estimated Coefficient	Standard Error	t-Statistic
(1)	5.03076e-002	5.15235e-002	0.97640
(djia_re	0.78083	4.75524e-002	16.42039
de	-6.19723e-002	2.20364e-002	-2.81226
west	7.38953e-002	4.96694e-002	1.48774
norestru	-1.03471e-003	4.51000e-002	-2.29426e-002

Number of Observations	664
R-squared	0.29908
Corrected R-squared	0.29483
Sum of Squared Residuals	1.83136e+002
Standard Error of the Regression	0.52716
Durbin-Watson Statistic	2.07916
Mean of Dependent Variable	-9.40259e-002

```
# 3
# WITH INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY

reg dep[(comp_ret-riskfree)] ind[(1) (djia_ret-riskfree) de west]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)          4.95657e-002         4.00840e-002         1.23655
 (djia_re          0.78083              4.75164e-002        16.43286
       de         -6.18161e-002         2.09430e-002        -2.95164
     west          7.35538e-002         4.73508e-002         1.55338


Number of Observations                 664
R-squared                               0.29908
Corrected R-squared                     0.29590
Sum of Squared Residuals                1.83136e+002
Standard Error of the Regression        0.52676
Durbin-Watson Statistic                 2.07913
Mean of Dependent Variable             -9.40259e-002
```

```
# 4
# WITHOUT INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(djia_ret-riskfree)]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated          Standard          t-
 Variable         Coefficient          Error          Statistic

 (djia_re           0.79339           4.68191e-002     16.94579


Number of Observations                 671
R-squared                               0.28480
Corrected R-squared                     0.28480
Sum of Squared Residuals                1.89013e+002
Standard Error of the Regression        0.53114
Durbin-Watson Statistic                 2.04215
Mean of Dependent Variable             -9.25316e-002
```

```
# 5
# WITHOUT INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-riskfree)] ind[(djia_ret-riskfree) de west norestru] coef[b02]
pred[p02]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

 (djia_re           0.77749              4.74276e-002        16.39320
       de          -4.50153e-002         1.35640e-002        -3.31872
     west           7.40609e-002         4.96673e-002         1.49114
 norestru           2.66005e-002         3.51120e-002         0.75759


Number of Observations                 664
R-squared                               0.29807
Corrected R-squared                     0.29488
Sum of Squared Residuals                1.83401e+002
Standard Error of the Regression        0.52714
Durbin-Watson Statistic                 2.07497
Mean of Dependent Variable             -9.40259e-002
```

```
# 6
# WITHOUT INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY

reg dep[(comp_ret-riskfree)] ind[(djia_ret-riskfree) de west]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

 (djia_re           0.77537              4.73294e-002        16.38233
       de          -4.10335e-002         1.25003e-002        -3.28259
     west           8.86475e-002         4.57688e-002         1.93686


Number of Observations                 664
R-squared                               0.29746
Corrected R-squared                     0.29533
Sum of Squared Residuals                1.83560e+002
Standard Error of the Regression        0.52697
Durbin-Watson Statistic                 2.07354
Mean of Dependent Variable             -9.40259e-002
```

```
# 7
# WITH INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(1) (sp5_ret-riskfree)]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)          9.45120e-003         2.12690e-002         0.44437
 (sp5_ret          0.79413              4.74882e-002        16.72262


Number of Observations                 671
R-squared                               0.29478
Corrected R-squared                     0.29373
Sum of Squared Residuals                1.86373e+002
Standard Error of the Regression        0.52781
Durbin-Watson Statistic                 2.04515
Mean of Dependent Variable             -9.25316e-002
```

```
# 8
# WITH INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-riskfree)] ind[(1) (sp5_ret-riskfree) de west norestru]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re
```

Independent Variable	Estimated Coefficient	Standard Error	t-Statistic
(1)	8.67963e-002	5.14596e-002	1.68669
(sp5_ret	0.79254	4.74354e-002	16.70770
de	-6.14510e-002	2.19246e-002	-2.80283
west	7.36297e-002	4.94168e-002	1.48997
norestru	-1.06095e-003	4.48706e-002	-2.36446e-002

Number of Observations	664
R-squared	0.30619
Corrected R-squared	0.30198
Sum of Squared Residuals	1.81278e+002
Standard Error of the Regression	0.52448
Durbin-Watson Statistic	2.08324
Mean of Dependent Variable	-9.40259e-002

```
# WITH INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WEST

reg dep[(comp_ret-riskfree)] ind[(1) (sp5_ret-riskfree) de west]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re
```

Independent Variable	Estimated Coefficient	Standard Error	t-Statistic
(1)	8.60357e-002	4.01351e-002	2.14365
(sp5_ret	0.79254	4.73994e-002	16.72039
de	-6.12909e-002	2.08367e-002	-2.94149
west	7.32796e-002	4.71100e-002	1.55550

Number of Observations	664
R-squared	0.30619
Corrected R-squared	0.30304
Sum of Squared Residuals	1.81278e+002
Standard Error of the Regression	0.52408
Durbin-Watson Statistic	2.08320
Mean of Dependent Variable	-9.40259e-002

```
# 10
# WITHOUT INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(sp5_ret-riskfree)]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated          Standard            t-
 Variable         Coefficient          Error            Statistic

 (sp5_ret           0.78808            4.54670e-002       17.33295


Number of Observations                 671
R-squared                               0.29458
Corrected R-squared                     0.29458
Sum of Squared Residuals                1.86428e+002
Standard Error of the Regression        0.52750
Durbin-Watson Statistic                 2.04312
Mean of Dependent Variable             -9.25316e-002
```

```
# WITHOUT INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-riskfree)] ind[(sp5_ret-riskfree) de west norestru]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re
```

Independent Variable	Estimated Coefficient	Standard Error	t-Statistic
(sp5_ret	0.78348	4.71963e-002	16.60044
de	-3.24373e-002	1.36129e-002	-2.38284
west	7.39213e-002	4.94855e-002	1.49380
norestru	4.62501e-002	3.50716e-002	1.31873

Number of Observations	664
R-squared	0.30320
Corrected R-squared	0.30003
Sum of Squared Residuals	1.82061e+002
Standard Error of the Regression	0.52521
Durbin-Watson Statistic	2.07213
Mean of Dependent Variable	-9.40259e-002

```
# 12
# WITHOUT INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WEST

reg dep[(comp_ret-riskfree)] ind[(sp5_ret-riskfree) de west]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

 (sp5_ret           0.77774             4.70215e-002        16.54010
       de          -2.57018e-002        1.26254e-002        -2.03572
     west           9.91592e-002        4.56605e-002         2.17166


Number of Observations                 664
R-squared                               0.30136
Corrected R-squared                     0.29925
Sum of Squared Residuals                1.82540e+002
Standard Error of the Regression        0.52551
Durbin-Watson Statistic                 2.06723
Mean of Dependent Variable             -9.40259e-002
```

```
# 13
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-t_bill)] ind[(1) (djia_ret-t_bill)] coef[b02] pred[p02]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)          -2.09886e-002         2.06393e-002        -1.01693
 (djia_re           0.78243              4.73179e-002        16.53560


Number of Observations                 671
R-squared                               0.29013
Corrected R-squared                     0.28907
Sum of Squared Residuals                1.88488e+002
Standard Error of the Regression        0.53080
Durbin-Watson Statistic                 2.04262
Mean of Dependent Variable             -6.17953e-002
```

```
# 14
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-t_bill)] ind[(1) (djia_ret-t_bill) de west norestru]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re
```

Independent Variable	Estimated Coefficient	Standard Error	t-Statistic
(1)	5.69197e-002	5.14372e-002	1.10659
(djia_re	0.78197	4.72204e-002	16.56001
de	-6.18622e-002	2.20350e-002	-2.80745
west	7.38571e-002	4.96666e-002	1.48706
norestru	-9.82414e-004	4.50975e-002	-2.17842e-002

Number of Observations	664
R-squared	0.30240
Corrected R-squared	0.29817
Sum of Squared Residuals	1.83115e+002
Standard Error of the Regression	0.52713
Durbin-Watson Statistic	2.07801
Mean of Dependent Variable	-6.32562e-002

```
# 15
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WEST

reg dep[(comp_ret-t_bill)] ind[(1) (djia_ret-t_bill) de west]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error              Statistic

      (1)          5.62154e-002         3.99732e-002         1.40633
 (djia_re          0.78197              4.71846e-002        16.57258
       de         -6.17139e-002         2.09416e-002        -2.94695
     west          7.35329e-002         4.73481e-002         1.55303


Number of Observations                 664
R-squared                               0.30240
Corrected R-squared                     0.29923
Sum of Squared Residuals                1.83116e+002
Standard Error of the Regression        0.52673
Durbin-Watson Statistic                 2.07798
Mean of Dependent Variable             -6.32562e-002
```

```
# 16
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-t_bill)] ind[(djia_ret-t_bill)] coef[b02] pred[p02]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error              Statistic

 (djia_re           0.78818              4.69796e-002        16.77712


Number of Observations                 671
R-squared                                0.28903
Corrected R-squared                      0.28903
Sum of Squared Residuals                 1.88779e+002
Standard Error of the Regression         0.53081
Durbin-Watson Statistic                  2.04132
Mean of Dependent Variable              -6.17953e-002
```

```
# 17
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-t_bill)] ind[(djia_ret-t_bill) de west norestru]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

 (djia_re           0.77967              4.71825e-002        16.52449
       de          -4.26076e-002         1.35220e-002        -3.15098
     west           7.40423e-002         4.96747e-002         1.49054
 norestru           3.03882e-002         3.50790e-002         0.86628


Number of Observations                 664
R-squared                               0.30110
Corrected R-squared                     0.29793
Sum of Squared Residuals                1.83456e+002
Standard Error of the Regression        0.52722
Durbin-Watson Statistic                 2.07327
Mean of Dependent Variable             -6.32562e-002
```

```
# 18
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WEST

reg dep[(comp_ret-t_bill)] ind[(djia_ret-t_bill) de west]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:  (comp_re

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

 (djia_re           0.77818             4.71425e-002        16.50704
       de          -3.80047e-002        1.24320e-002        -3.05701
     west           9.07409e-002        4.57735e-002         1.98239


Number of Observations                 664
R-squared                               0.30031
Corrected R-squared                     0.29819
Sum of Squared Residuals                1.83664e+002
Standard Error of the Regression        0.52712
Durbin-Watson Statistic                 2.07160
Mean of Dependent Variable             -6.32562e-002
```

EQUATIONS

```
# 1
# WITH INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(1) (djia_ret-riskfree)]


# 2
# WITH INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-riskfree)] ind[(1) (djia_ret-riskfree) de west norestru]
coef[b02] pred[p02]


# 3
# WITH INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY

reg dep[(comp_ret-riskfree)] ind[(1) (djia_ret-riskfree) de west]



# 4
# WITHOUT INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(djia_ret-riskfree)]


# 5
# WITHOUT INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-riskfree)] ind[(djia_ret-riskfree) de west norestru] coef[b02]
pred[p02]
```

```
# 6
# WITHOUT INTERCEPT

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY

reg dep[(comp_ret-riskfree)] ind[(djia_ret-riskfree) de west]


# 7
# WITH INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(1) (sp5_ret-riskfree)]



# 8
# WITH INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-riskfree)] ind[(1) (sp5_ret-riskfree) de west norestru]



# 9
# WITH INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WEST

reg dep[(comp_ret-riskfree)] ind[(1) (sp5_ret-riskfree) de west]



# 10
# WITHOUT INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-riskfree)] ind[(sp5_ret-riskfree)]



# 11
```

```
# WITHOUT INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-riskfree)] ind[(sp5_ret-riskfree) de west norestru]



# 12
# WITHOUT INTERCEPT, S&P 500 AS MARKET RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WEST

reg dep[(comp_ret-riskfree)] ind[(sp5_ret-riskfree) de west]



# 13
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-t_bill)] ind[(1) (djia_ret-t_bill)] coef[b02] pred[p02]


# 14
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-t_bill)] ind[(1) (djia_ret-t_bill) de west norestru]


# 15
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WEST

reg dep[(comp_ret-t_bill)] ind[(1) (djia_ret-t_bill) de west]


# 16
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
```

```
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE,

reg dep[(comp_ret-t_bill)] ind[(djia_ret-t_bill)] coef[b02] pred[p02]


# 17
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WESTERN REGION DUMMY, NO RESTRUCTURING DUMMY

reg dep[(comp_ret-t_bill)] ind[(djia_ret-t_bill) de west norestru]


# 18
# WITH INTERCEPT, T-BILL AS RISK FREE RATE

# DEP: DIFFERENCE OF COMPANY RATE OF RETURN AND RISKFREE RATE
# IND: DIFFERENCE OF MARKET RATE OF RETURN AND RISKFREE RATE, DEBT EQUITY RATIO,
#      WEST

reg dep[(comp_ret-t_bill)] ind[(djia_ret-t_bill) de west]


quit
```

```
# 1

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE


reg dep[k_stk] ind[(1) big small norestru west gas de trouble] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)          0.25685              4.78856e-002         5.36391
      big         -1.75807e-002         3.24093e-002        -0.54246
    small         -1.72745e-002         3.43498e-002        -0.50290
 norestru         -7.39366e-002         2.89430e-002        -2.55456
     west          3.00810e-003         3.20601e-002         9.38267e-002
      gas         -5.13806e-002         2.78798e-002        -1.84293
       de         -0.11479              1.49246e-002        -7.69143
  trouble          2.18999e-003         4.67471e-003         0.46848


Number of Observations                 595
R-squared                               0.10451
Corrected R-squared                     9.38320e-002
Sum of Squared Residuals               57.23771
Standard Error of the Regression        0.31226
Durbin-Watson Statistic                 0.71321
Mean of Dependent Variable             -4.54274e-003
```

```
# 2

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE


reg dep[k_stk] ind[(1) big small norestru west gas de trouble1] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error              Statistic

      (1)           0.22966             4.80630e-002          4.77826
      big          -7.21958e-003        3.22214e-002         -0.22406
    small          -1.91304e-002        3.39916e-002         -0.56280
 norestru          -5.74232e-002        2.87705e-002         -1.99591
     west           1.87628e-002        3.20793e-002          0.58489
      gas          -5.39077e-002        2.75631e-002         -1.95579
       de          -0.10235             1.51961e-002         -6.73516
 trouble1           5.58637e-002        1.62922e-002          3.42885


Number of Observations                 595
R-squared                               0.12177
Corrected R-squared                     0.11129
Sum of Squared Residuals               56.13479
Standard Error of the Regression        0.30924
Durbin-Watson Statistic                 0.72432
Mean of Dependent Variable             -4.54274e-003
```

```
# 3

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: LOAD, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE


reg dep[k_stk] ind[(1) load norestru west gas de trouble] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error              Statistic

      (1)          0.24303              3.97186e-002         6.11886
     load         -2.19452e-007         1.85038e-006        -0.11860
 norestru         -7.42831e-002         2.83053e-002        -2.62436
     west          8.11683e-004         3.17087e-002         2.55981e-002
      gas         -4.85088e-002         2.66921e-002        -1.81735
       de         -0.11268              1.41784e-002        -7.94710
  trouble          2.14275e-003         4.62945e-003         0.46285


Number of Observations                606
R-squared                              0.10406
Corrected R-squared                    9.50847e-002
Sum of Squared Residuals              57.45565
Standard Error of the Regression       0.30971
Durbin-Watson Statistic                0.71917
Mean of Dependent Variable            -3.48119e-003
```

```
# 4

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: CAPACITY, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE


reg dep[k_stk] ind[(1) capacity norestru west gas de trouble] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)           0.24949             3.85877e-002         6.46552
 capacity          -2.50321e-007        1.46675e-006        -0.17066
 norestru          -7.71792e-002        2.76456e-002        -2.79174
     west          -6.13263e-004        3.15723e-002        -1.94241e-002
      gas          -5.34567e-002        2.59685e-002        -2.05852
       de          -0.11295             1.40112e-002        -8.06162
  trouble           2.14179e-003        4.61219e-003         0.46438


Number of Observations                 624
R-squared                               0.10462
Corrected R-squared                     9.59087e-002
Sum of Squared Residuals               58.65432
Standard Error of the Regression        0.30832
Durbin-Watson Statistic                 0.72709
Mean of Dependent Variable             -1.43723e-003
```

```
# 5

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: RESERVE MARGIN, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE


reg dep[k_stk] ind[(1) r_margin norestru west gas de trouble] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error              Statistic

      (1)          0.24448              3.85374e-002         6.34398
 r_margin         -6.60340e-004         5.25771e-004        -1.25595
 norestru         -6.82974e-002         2.89594e-002        -2.35839
     west          2.45746e-003         3.10769e-002         7.90767e-002
      gas         -5.41393e-002         2.71915e-002        -1.99103
       de         -0.11228              1.41422e-002        -7.93946
  trouble          2.12804e-003         4.64751e-003         0.45789


Number of Observations                 595
R-squared                               0.10634
Corrected R-squared                     9.72202e-002
Sum of Squared Residuals               57.12084
Standard Error of the Regression        0.31168
Durbin-Watson Statistic                 0.71643
Mean of Dependent Variable             -4.54274e-003
```

EQUATIONS

```
# 1

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE

reg dep[k_stk] ind[(1) big small norestru west gas de trouble] coef[b] pred[p]


# 2

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE

reg dep[k_stk] ind[(1) big small norestru west gas de trouble1] coef[b] pred[p]


# 3

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: LOAD, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE

reg dep[k_stk] ind[(1) load norestru west gas de trouble] coef[b] pred[p]


# 4

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: CAPACITY, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE

reg dep[k_stk] ind[(1) capacity norestru west gas de trouble] coef[b] pred[p]


# 5

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: RESERVE MARGIN, NORESTRUCTURING, WEST, GAS, DEBT EQUITY RATIO, TROUBLE

reg dep[k_stk] ind[(1) r_margin norestru west gas de trouble] coef[b] pred[p]
```

```
# 1

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST, GAS


reg dep[k_stk] ind[(1) big small gas] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)           0.30996             6.65033e-002         4.66086
      big          -9.85107e-002        7.09352e-002        -1.38874
    small          -8.56823e-002        7.16318e-002        -1.19615
      gas          -0.12899             6.06924e-002        -2.12526


Number of Observations                 55
R-squared                               0.11363
Corrected R-squared                     6.14887e-002
Sum of Squared Residuals                2.24317
Standard Error of the Regression        0.20972
Durbin-Watson Statistic                 1.53353
Mean of Dependent Variable              0.16917
```

```
# 2

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING

reg dep[k_stk] ind[(1) big small norestru] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

     (1)           0.15279              5.98886e-002         2.55120
     big          -9.00057e-002         7.11834e-002        -1.26442
   small          -7.37794e-002         7.04922e-002        -1.04663
 norestru          0.12490              5.95490e-002         2.09747


Number of Observations                 55
R-squared                               0.11175
Corrected R-squared                     5.95012e-002
Sum of Squared Residuals                2.24792
Standard Error of the Regression        0.20995
Durbin-Watson Statistic                 1.64709
Mean of Dependent Variable              0.16917
```

```
# 3

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST

reg dep[k_stk] ind[(1) big small norestru west] coef[b] pred[p]
```

********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable: k_stk

Independent Variable	Estimated Coefficient	Standard Error	t-Statistic
(1)	0.14439	6.03200e-002	2.39373
big	-8.58710e-002	7.11901e-002	-1.20622
small	-8.85656e-002	7.17421e-002	-1.23450
norestru	0.11568	6.00893e-002	1.92519
west	7.52462e-002	7.04277e-002	1.06842

Number of Observations	55
R-squared	0.13158
Corrected R-squared	6.21037e-002
Sum of Squared Residuals	2.19775
Standard Error of the Regression	0.20965
Durbin-Watson Statistic	1.66935
Mean of Dependent Variable	0.16917

```
# 4

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST, GAS


reg dep[k_stk] ind[(1) big small norestru west gas] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk
```

Independent Variable	Estimated Coefficient	Standard Error	t-Statistic
(1)	0.23036	7.64368e-002	3.01375
big	-8.60136e-002	6.97136e-002	-1.23381
small	-0.11608	7.19490e-002	-1.61334
norestru	9.80710e-002	5.96764e-002	1.64338
west	6.91925e-002	6.90514e-002	1.00204
gas	-0.10707	6.04182e-002	-1.77216

Number of Observations	55
R-squared	0.18388
Corrected R-squared	0.10061
Sum of Squared Residuals	2.06537
Standard Error of the Regression	0.20531
Durbin-Watson Statistic	1.56094
Mean of Dependent Variable	0.16917

```
# 5

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE


reg dep[k_stk] ind[(1) big small norestru west gas de trouble] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent          Estimated            Standard              t-
 Variable           Coefficient            Error             Statistic

      (1)            0.30829             9.36351e-002          3.29244
      big           -7.91689e-002        6.78360e-002         -1.16706
    small           -0.14117             7.08053e-002         -1.99373
 norestru            8.64682e-002        6.33630e-002          1.36465
     west            8.65345e-002        6.67426e-002          1.29654
      gas           -9.47018e-002        5.78379e-002         -1.63737
       de           -3.44223e-002        2.75810e-002         -1.24805
  trouble           -4.26504e-002        3.26244e-002         -1.30732


Number of Observations                  54
R-squared                               0.21845
Corrected R-squared                     9.95181e-002
Sum of Squared Residuals                1.75825
Standard Error of the Regression        0.19551
Durbin-Watson Statistic                 1.63095
Mean of Dependent Variable              0.17890
```

```
# 6

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE


reg dep[k_stk] ind[(1) big small norestru west gas de trouble1] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent          Estimated            Standard              t-
 Variable           Coefficient            Error             Statistic

      (1)            0.28160             8.30511e-002          3.39065
      big           -0.10584             6.02476e-002         -1.75676
    small           -0.16425             6.28435e-002         -2.61364
 norestru            9.35145e-002        5.36533e-002          1.74294
     west            0.11954             5.96740e-002          2.00320
      gas           -7.31278e-002        5.14276e-002         -1.42196
       de           -2.30369e-002        2.45435e-002         -0.93861
 trouble1            0.21221             5.45763e-002          3.88834


Number of Observations                  54
R-squared                                0.38993
Corrected R-squared                      0.29709
Sum of Squared Residuals                 1.37248
Standard Error of the Regression         0.17273
Durbin-Watson Statistic                  1.68976
Mean of Dependent Variable               0.17890
```

```
# 7

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: LOAD, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE


reg dep[k_stk] ind[(1) load norestru west gas de trouble] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)           0.23254             8.32828e-002         2.79212
     load          -3.22035e-006        3.84593e-006        -0.83734
 norestru           7.61057e-002        6.35353e-002         1.19785
     west           4.79988e-002        6.69464e-002         0.71697
      gas          -6.99672e-002        5.69265e-002        -1.22908
       de          -2.03214e-002        2.73285e-002        -0.74360
  trouble          -3.78990e-002        3.28772e-002        -1.15274


Number of Observations                  55
R-squared                               0.16019
Corrected R-squared                     5.52145e-002
Sum of Squared Residuals                1.88941
Standard Error of the Regression        0.19840
Durbin-Watson Statistic                 1.63785
Mean of Dependent Variable              0.17871
```

```
# 8

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: CAPACITY, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE


reg dep[k_stk] ind[(1) capacity norestru west gas de trouble] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent          Estimated            Standard              t-
 Variable           Coefficient            Error             Statistic

      (1)            0.21296             8.08380e-002          2.63437
 capacity           -1.04476e-006        3.11163e-006         -0.33576
 norestru            7.99953e-002        6.23307e-002          1.28340
     west            5.67719e-002        6.73894e-002          0.84244
      gas           -6.74502e-002        5.59036e-002         -1.20655
       de           -2.22907e-002        2.72445e-002         -0.81817
  trouble           -3.72218e-002        3.30499e-002         -1.12623


Number of Observations                  57
R-squared                               0.14970
Corrected R-squared                     4.76605e-002
Sum of Squared Residuals                1.99174
Standard Error of the Regression        0.19959
Durbin-Watson Statistic                 1.74414
Mean of Dependent Variable              0.17556
```

```
# 9

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: RESERVE MARGIN, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE


reg dep[k_stk] ind[(1) r_margin norestru west gas de trouble] coef[b] pred[p]


********* ORDINARY LEAST SQUARES ESTIMATION *********

Dependent Variable:     k_stk

Independent        Estimated            Standard              t-
 Variable         Coefficient            Error             Statistic

      (1)           0.20887             8.10154e-002         2.57819
 r_margin          -3.19150e-004        1.16250e-003        -0.27454
 norestru           8.21708e-002        6.59085e-002         1.24674
     west           6.12436e-002        6.64013e-002         0.92232
      gas          -7.51896e-002        5.88008e-002        -1.27872
       de          -2.19899e-002        2.76973e-002        -0.79394
  trouble          -3.66588e-002        3.33622e-002        -1.09881


Number of Observations                  54
R-squared                                0.15119
Corrected R-squared                      4.28264e-002
Sum of Squared Residuals                 1.90958
Standard Error of the Regression         0.20157
Durbin-Watson Statistic                  1.65141
Mean of Dependent Variable               0.17890
```

EQUATIONS

```
range if[(year==2003)&(quarter==3)]

# 1

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST, GAS

reg dep[k_stk] ind[(1) big small gas] coef[b] pred[p]

# 2

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING

reg dep[k_stk] ind[(1) big small norestru] coef[b] pred[p]

# 3

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST

reg dep[k_stk] ind[(1) big small norestru west] coef[b] pred[p]

# 4

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST, GAS

reg dep[k_stk] ind[(1) big small norestru west gas] coef[b] pred[p]

# 5

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE

reg dep[k_stk] ind[(1) big small norestru west gas de trouble] coef[b] pred[p]

# 6

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: BIG, SMALL, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE

reg dep[k_stk] ind[(1) big small norestru west gas de trouble1] coef[b] pred[p]
```

```
# 7

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: LOAD, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE


reg dep[k_stk] ind[(1) load norestru west gas de trouble] coef[b] pred[p]

# 8

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: CAPACITY, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE


reg dep[k_stk] ind[(1) capacity norestru west gas de trouble] coef[b] pred[p]

# 9

# DEP: DCF REQUIRED RATE OF RETURN (STOCK PRICE GROWTH RATE)
# IND: RESERVE MARGIN, NO RESTRUCTURING, WEST, GAS, DEBT EQUITY, TROUBLE


reg dep[k_stk] ind[(1) r_margin norestru west gas de trouble] coef[b] pred[p]
```