



PO Box 1370  
Artesia, NM 88211-1370  
(575) 748-1288

30-015-37830

February 17, 2011

COG, LLC  
Fasken Center, Tower II  
550 West Texas Ave, Suite 1300  
Midland, TX 79701

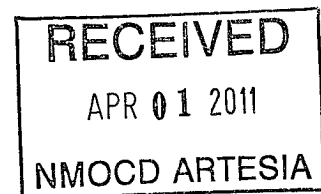
RE: Harvard Federal #20  
2035' FNL & 1035' FWL  
Sec. 12, T17S, R30E  
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

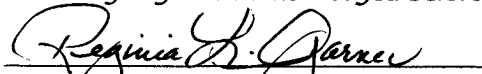
Very truly yours,

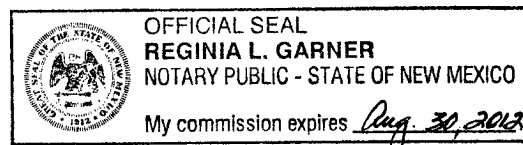
  
Eddie C. LaRue  
Operations Manager



State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 17<sup>th</sup> day of February, 2011.

  
Regina L. Garner  
Notary Public



Harvard Federal #20

| Date      | Depth | Dev/Inc | Dir/AZ |
|-----------|-------|---------|--------|
| 2/6/2011  | 516   | 2.00    | 0.00   |
| 2/6/2011  | 849   | 1.20    | 0.00   |
| 2/6/2011  | 1297  | 0.30    | 0.00   |
| 2/8/2011  | 1365  | 0.71    | 147.30 |
| 2/8/2011  | 1429  | 0.58    | 178.10 |
| 2/8/2011  | 1556  | 2.98    | 240.10 |
| 2/8/2011  | 1620  | 3.61    | 232.90 |
| 2/8/2011  | 1684  | 4.36    | 222.60 |
| 2/8/2011  | 1747  | 4.56    | 213.70 |
| 2/8/2011  | 1811  | 4.69    | 202.60 |
| 2/9/2011  | 1907  | 4.81    | 198.20 |
| 2/9/2011  | 2009  | 4.21    | 198.00 |
| 2/9/2011  | 2105  | 4.13    | 199.20 |
| 2/9/2011  | 2201  | 4.91    | 201.10 |
| 2/9/2011  | 2296  | 4.54    | 201.40 |
| 2/9/2011  | 2392  | 4.39    | 201.90 |
| 2/9/2011  | 2488  | 3.98    | 198.00 |
| 2/9/2011  | 2583  | 4.20    | 205.30 |
| 2/9/2011  | 2679  | 3.85    | 203.30 |
| 2/9/2011  | 2775  | 4.50    | 198.00 |
| 2/10/2011 | 2870  | 4.34    | 200.70 |
| 2/10/2011 | 2966  | 4.26    | 198.70 |
| 2/10/2011 | 3062  | 4.91    | 202.10 |
| 2/10/2011 | 3157  | 4.78    | 202.60 |
| 2/10/2011 | 3253  | 4.68    | 203.30 |
| 2/10/2011 | 3348  | 4.43    | 205.50 |
| 2/11/2011 | 3444  | 4.61    | 206.50 |
| 2/11/2011 | 3539  | 4.50    | 205.40 |
| 2/11/2011 | 3635  | 4.50    | 207.40 |
| 2/11/2011 | 3730  | 4.66    | 207.50 |
| 2/11/2011 | 5876  | 4.54    | 208.20 |
| 2/11/2011 | 3921  | 4.48    | 208.10 |
| 2/11/2011 | 4015  | 4.60    | 209.20 |
| 2/11/2011 | 4113  | 4.34    | 208.70 |
| 2/11/2011 | 4208  | 4.03    | 211.10 |
| 2/11/2011 | 4303  | 4.23    | 211.30 |
| 2/12/2011 | 4399  | 4.01    | 209.30 |
| 2/12/2011 | 4463  | 3.00    | 206.70 |
| 2/12/2011 | 4591  | 0.27    | 295.70 |
| 2/12/2011 | 4687  | 0.46    | 322.50 |
| 2/12/2011 | 4750  | 0.30    | 287.00 |
| 2/14/2011 | 5223  | 0.70    | 0.00   |
| 2/14/2011 | 5673  | 0.50    | 0.00   |
| 2/15/2011 | 6095  | 0.50    | 0.00   |