

Submit within 45 days of well completion

State of New Mexico

Energy, Minerals and Natural Resources

Oil Conservation Division

1220 S. St Francis Dr.

Santa Fe, NM 87505

Revised November 6, 2013

1. WELL API NO.  
30-025-41781

2. Well Name:  
MCDONALD STATE AC 2 #037

3. Well Number:  
037

4. Surface Hole Location:  
Unit:A    Lot:A    Section:13    Township:22S    Range:36E  
Feet from:990    N/S Line:N  
Feet from:990    E/W Line:E

5. Bottom Hole Location:  
Unit:A    Lot:A    Section:13    Township:22S    Range:36E  
Feet from:990    N/S Line:N  
Feet from:990    E/W Line:E

6. latitude:  
32.3963691805547    longitude:  
-103.213581775864

7. County:  
Lea

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

8. Operator Name and Address:  
APACHE CORP  
303 Veterans Airpark Lane  
Suite 3000  
Midland 79705

9. OGRID:    873

10. Phone Number:    432-818-1062

11. Last Fracture Date:    7/18/2014    Frac Performed by:    Cudd

12. Production Type:  
O

13. Pool Code(s):  
19190, 60240, 62700

14. Gross Fractured Interval:  
6,269 ft to 6,793 ft

15. True Vertical Depth (TVD):  
7,600 ft

16. Total Volume of Fluid Pumped:  
96,480 gals

17. Total Volume of Re-Use Water Pumped:  
N/A

18. Percent of Re-Use Water in Fluid Pumped:  
Not Disclosed

| 19. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION: |                        |                          |                                              |                                     |                                                          |                                                          |
|----------------------------------------------------|------------------------|--------------------------|----------------------------------------------|-------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| Trade Name                                         | Supplier               | Purpose                  | Ingredients                                  | (CAS #) Chemical Abstract Service # | Maximum Ingredient Concentration in Additive (% by mass) | Maximum Ingredient Concentration in HF Fluid (% by mass) |
| Water                                              |                        | Carrier / Base Fluid     |                                              | 7732-18-5                           | 100%                                                     | 83.84123%                                                |
| Super DC/LC TLC/THS Opti RCS                       | Sandtrol               | Proppant                 | Silicon Dioxide                              | 14808-60-7                          | 97%                                                      | 12.16944%                                                |
|                                                    |                        |                          | P/F Novolak Resin                            | 9003-35-4                           | 5%                                                       | 0.62729%                                                 |
|                                                    |                        |                          | Hexamethylenetetramine                       | 1009-7-0                            | 1%                                                       | 0.12546%                                                 |
| B-15                                               | Water Science Tech     | Biocide                  | Tetrakis (hydroxymethyl) phosphonium sulfate | 55566-30-8                          | 20%                                                      | 0.0017%                                                  |
| BF-200                                             | ASK                    | Buffer                   | Water                                        | 7732-18-5                           | 80%                                                      | 0.00682%                                                 |
|                                                    |                        |                          | Potassium Hydroxide                          | 1310-58-3                           | 25%                                                      | 0.02232%                                                 |
| CS-14                                              | Chemplex, L.C.         | Clay Control             | Water                                        | 7732-18-5                           | 80%                                                      | 0.07143%                                                 |
|                                                    |                        |                          | Non-hazardous salts (Choline)                | Proprietary                         | 66%                                                      | 0.05327%                                                 |
| 15% Hydrochloric Acid                              | Reagent                | Scale Dissolver          | Water                                        | 7732-18-5                           | 45%                                                      | 0.03632%                                                 |
|                                                    |                        |                          | 37% Hydrochloric Acid                        | 7647-01-0                           | 15%                                                      | 0.35029%                                                 |
| I-122                                              | Chemplex, L.C.         | Acid Corrosion Inhibitor | Water                                        | 7732-18-5                           | 85%                                                      | 1.98495%                                                 |
|                                                    |                        |                          | Methanol                                     | 67-56-1                             | 70%                                                      | 0.00075%                                                 |
|                                                    |                        |                          | Propargyl alcohol                            | 107-19-7                            | 8%                                                       | 0.00015%                                                 |
|                                                    |                        |                          | Alcohol Ethoxylate                           | Trade Secret                        | 30%                                                      | 0.00056%                                                 |
|                                                    |                        |                          | Surfactants                                  | Trade Secret                        | 10%                                                      | 0.00019%                                                 |
|                                                    |                        |                          | n-olefins                                    | Trade Secret                        | 30%                                                      | 0.00056%                                                 |
|                                                    |                        |                          | thiourea-formaldehyde copolymer              | 68527-49-1                          |                                                          |                                                          |
| SG-15G                                             | PiP Technology         | Polymer                  | Guar Gum                                     | 9000-30-0                           | 50%                                                      | 0.2988%                                                  |
|                                                    |                        |                          | Petroleum Distillate (Mineral Oil)           | 64742-47-8                          | 55%                                                      | 0.32868%                                                 |
|                                                    |                        |                          | Bentonite Clay                               | 14808-60-7                          | 2%                                                       | 0.01195%                                                 |
|                                                    |                        |                          | Surfactant                                   | 68439-51-0                          | 2%                                                       | 0.01195%                                                 |
| CX-10                                              | Benchmark              | Crosslinker              | Sodium Borate Decahydrate                    | 1303-96-4                           | 29.9%                                                    | 0.02115%                                                 |
|                                                    |                        |                          | Water                                        | 7732-18-5                           | 69.1%                                                    | 0.04888%                                                 |
| GB-2                                               | Fritz Industries, Inc. | Breaker                  | Ammonium Persulfate                          | 7727-54-0                           | 99.9%                                                    | 0.00052%                                                 |
| GB-150                                             | Chemplex, L.C.         | Breaker                  | Non-hazardous ingredients                    | NA                                  | 100%                                                     | 0.03919%                                                 |
| NE-212                                             | Chemplex, L.C.         | Non-emulsifier           | Isopropanol                                  | 67-63-0                             | 5%                                                       | 9E-05%                                                   |
|                                                    |                        |                          | Methanol                                     | 67-56-1                             | 50%                                                      | 0.00094%                                                 |
|                                                    |                        |                          | Alkyl Quaternary Ammonium Chlorides          | Mixture                             | 25%                                                      | 0.00047%                                                 |
|                                                    |                        |                          | Diethanolamine                               | 111422                              | 2%                                                       | 2E-05%                                                   |
|                                                    |                        |                          | 1,3-Propanediol, 2-amino-2-(hm)-polymer      | Trade Secret                        | 8%                                                       | 0.00015%                                                 |
|                                                    |                        |                          | 2-Butoxy-1-ethanol                           | 111-76-2                            | 7%                                                       | 0.00013%                                                 |
|                                                    |                        |                          | Cocamide                                     | 68603-42-9                          | 2%                                                       | 4E-05%                                                   |
|                                                    |                        |                          | Diethanolamine Salt                          |                                     |                                                          |                                                          |
| NE-227                                             | CESI                   | Non-emulsifier           | Isopropanol                                  | 67-63-0                             | 15%                                                      | 0.01179%                                                 |
|                                                    |                        |                          | Methanol                                     | 67-56-1                             | 15%                                                      | 0.01179%                                                 |
|                                                    |                        |                          | Ethoxylated Nonylphenol                      | 9016-45-9                           | 20%                                                      | 0.01572%                                                 |
| FE-360                                             | Chemplex, L.C.         | Iron Control Additive    | Cupric Chloride Dihydrate                    | 10125-13-0                          | 7%                                                       | 0.0005%                                                  |
|                                                    |                        |                          | Thioglycol                                   | 60-24-2                             | 80%                                                      | 0.00574%                                                 |
| SI-625                                             | Keltech                | Scale Inhibitor          | Methanol                                     | 67-56-1                             | 19.9%                                                    | 0.00841%                                                 |
| Superset W                                         | Santrol                | Resin Activator          | Methanol                                     | 67-56-1                             | 50%                                                      | 0.12969%                                                 |
|                                                    |                        |                          | Poly(oxyethylene) nonyphenol ether           | 9016-45-9                           | 54%                                                      | 0.14007%                                                 |

20. I, as Operator, hereby certify that the information shown on this disclosure form is true and complete to the best of my knowledge and belief.

Signature:    Signed Electronically

Printed Name:    Reesa R. Holland

Title:    Sr Staff Reg Tech

Date:    8/4/2014

E-mail Address:    reesa.fisher@apachecorp.com

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