

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

1. WELL API NO:  
30-025-41795

2. Well Name:  
THISTLE UNIT #054H

3. Well Number:  
054H

HYDRAULIC FRACTURING FLUID  
DISCLOSURE

☒Original  
☐Amendment

4. Surface Hole Location:  
Unit:A    Lot:A    Section:28    Township:23S    Range:33E  
Feet from:200    N/S Line:N  
Feet from:1100    E/W Line:E

5. Bottom Hole Location:  
Unit:A    Lot:A    Section:28    Township:23S    Range:33E  
Feet from:200    N/S Line:N  
Feet from:1100    E/W Line:E

6. latitude:                      32.2824211                      longitude:                      -103.5722961

7. County:  
Lea

8. Operator Name and Address:  
DEVON ENERGY PRODUCTION COMPANY, LP  
333 W. Sheridan Avenue  
Oklahoma City 73102

9. OGRID:                      6137                      10. Phone Number:                      405-228-6588

11. Last Fracture Date:                      10/28/2015    Frac Performed by:    FTS International Services

12. Production Type:  
O

13. Pool Code(s):  
59900

14. Gross Fractured Interval:  
Confidential

15. True Vertical Depth (TVD):  
11,180 ft

16. Total Volume of Fluid Pumped:  
30,637,476 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                   | Operator | Carrier                  | Water                                                                                | 7732-18-5                           |                                                          | 79.1613421%                                              |
| APB-1                   | FTSI     | Gel breaker              | Ammonium Persulfate                                                                  | 7727-54-0                           | 100%                                                     | 0.0030681%                                               |
| CI-150                  | FTSI     | Acid Corrosion Inhibitor | Isopropanol                                                                          | 67-63-0                             | 30%                                                      | 0.0002329%                                               |
|                         |          |                          | Dimethylformamide                                                                    | 68-12-2                             | 10%                                                      | 7.76E-05%                                                |
|                         |          |                          | Organic amine resin salt                                                             | Proprietary                         | 30%                                                      | 0.0002329%                                               |
|                         |          |                          | Quaternary ammonium compound                                                         | Proprietary                         | 10%                                                      | 7.76E-05%                                                |
|                         |          |                          | Aromatic aldehyde                                                                    | Proprietary                         | 10%                                                      | 7.76E-05%                                                |
|                         |          |                          | Ethylene Glycol                                                                      | 107-21-1                            | 30%                                                      | 0.0002329%                                               |
|                         |          |                          | Water                                                                                | 7732-18-5                           | 5%                                                       | 3.88E-05%                                                |
|                         |          |                          | Fatty Acid                                                                           | Proprietary                         | 0.1%                                                     | 8E-07%                                                   |
|                         |          |                          | Fatty Acid Salt                                                                      | Proprietary                         | 0.1%                                                     | 8E-07%                                                   |
|                         |          |                          | Aliphatic alcohol                                                                    | Proprietary                         | 0.1%                                                     | 8E-07%                                                   |
|                         |          |                          | Alkyene Oxide Block Polymer                                                          | Proprietary                         | 10%                                                      | 7.76E-05%                                                |
|                         |          |                          | Diethylene glycol                                                                    | 111-46-6                            | 1%                                                       | 7.8E-06%                                                 |
| CS POLYBREAK 210        | FTSI     | Polymer breaker          | Sodium chlorite                                                                      | 7758-19-2                           | 5%                                                       | 0.0005707%                                               |
|                         |          |                          | Water                                                                                | 7732-18-5                           | 95%                                                      | 0.0108433%                                               |
|                         |          |                          | Sodium Hydroxide                                                                     | 1310-73-2                           | 0%                                                       | 1E-07%                                                   |
|                         |          |                          | Tetrasodium EDTA                                                                     | 64-02-8                             | 41%                                                      | 0.0004199%                                               |
|                         |          |                          | Sodium Hydroxide                                                                     | 1310-73-2                           | 2%                                                       | 2.05E-05%                                                |
|                         |          |                          | Trisodium Nitrotri-acetic acid                                                       | 5064-31-3                           | 2%                                                       | 2.05E-05%                                                |
|                         |          |                          | Ethylenediaminetriacetic acid, trisodium salt                                        | 19019-43-3                          | 0.8%                                                     | 8.2E-06%                                                 |
|                         |          |                          | Water                                                                                | 7732-18-5                           | 60%                                                      | 0.0006145%                                               |
|                         |          |                          | Sodium formate                                                                       | 141-53-7                            | 0.6%                                                     | 6.1E-06%                                                 |
|                         |          |                          | Sodium glycolate                                                                     | 2836-32-0                           | 1.5%                                                     | 1.54E-05%                                                |
|                         |          |                          | Iminodiacetate disodium salt                                                         | 17593-73-6                          | 0.2%                                                     | 2E-06%                                                   |
|                         |          |                          | Petroleum distillate                                                                 | 64742-47-8                          | 26%                                                      | 0.0030961%                                               |
|                         |          |                          | hydrotreated light                                                                   |                                     |                                                          |                                                          |
|                         |          |                          | Acrylamide P/W acrylic acid, ammonium salt                                           | 26100-47-0                          | 25%                                                      | 0.002977%                                                |
|                         |          |                          | Water                                                                                | 7732-18-5                           | 48%                                                      | 0.0057158%                                               |
|                         |          |                          | Sorbitan Monooleate                                                                  | 1338-43-8                           | 3%                                                       | 0.0003572%                                               |
|                         |          |                          | Alcohols (C12-C14), ethoxylated                                                      | 68439-50-9                          | 4%                                                       | 0.0004763%                                               |
|                         |          |                          | Alcohols (C12-C16), ethoxylated                                                      | 68551-12-2                          | 4%                                                       | 0.0004763%                                               |
|                         |          |                          | Alcohols (C10-C16), ethoxylated                                                      | 68002-97-1                          | 4%                                                       | 0.0004763%                                               |
|                         |          |                          | Acrylamide                                                                           | 79-06-1                             | 0.1%                                                     | 1.19E-05%                                                |
|                         |          |                          | Dewaxed heavy paraffinic                                                             | 64742-65-0                          | 1.5%                                                     | 0.0001786%                                               |
|                         |          |                          | Ammonium Acrylate                                                                    | 10604-69-0                          | 0.5%                                                     | 5.95E-05%                                                |
|                         |          |                          | Ammonium Chloride                                                                    | 12125-02-9                          | 12%                                                      | 0.0014269%                                               |
|                         |          |                          | Polyethylene glycol monooleate                                                       | 9004-96-0                           | 3%                                                       | 0.0003572%                                               |
|                         |          |                          | Alkylloxypolyethylenoxyethanol                                                       | 84133-50-6                          | 1%                                                       | 0.0001191%                                               |
|                         |          |                          | Sorbitol Tetraoleate                                                                 | 61723-83-9                          | 2%                                                       | 0.0002382%                                               |
|                         |          |                          | Copolymer of acrylamide and sodium acrylate                                          | 25987-30-8                          | 33%                                                      | 0.0039296%                                               |
|                         |          |                          | Surfactant                                                                           | Proprietary                         | 7%                                                       | 0.0008336%                                               |
|                         |          |                          | Hydrotreated heavy paraffinic                                                        | 64742-54-7                          | 5%                                                       | 0.0005954%                                               |
|                         |          |                          | Isopropanol                                                                          | 67-63-0                             | 0.3%                                                     | 3.57E-05%                                                |
|                         |          |                          | Ammonium Persulfate                                                                  | 7727-54-0                           | 100%                                                     | 0.0059698%                                               |
|                         |          |                          | Cured acrylic resin                                                                  | Proprietary                         | 100%                                                     | 0.0059698%                                               |
|                         |          |                          | Silica, Crystalline- Quartz                                                          | 14808-60-7                          | 10%                                                      | 0.000597%                                                |
|                         |          |                          | Proprietary                                                                          | Proprietary                         | 0%                                                       | 0%                                                       |
|                         |          |                          | 2-Butoxyethanol                                                                      | 111-76-2                            | 10%                                                      | 0.0076676%                                               |
|                         |          |                          | 2-Propanol                                                                           | 67-63-0                             | 10%                                                      | 0.0076676%                                               |
|                         |          |                          | Dodecylbenzenesulfonic acid                                                          | 27176-87-0                          | 5%                                                       | 0.0038338%                                               |
|                         |          |                          | Water                                                                                | 7732-18-5                           | 90%                                                      | 0.069008%                                                |
|                         |          |                          | Sulfuric Acid                                                                        | 7664-93-9                           | 0.01%                                                    | 1.07E-05%                                                |
|                         |          |                          | Sulfur Dioxide                                                                       | 7446-09-5                           | 0%                                                       | 1.1E-06%                                                 |
|                         |          |                          | Benzene, C10-16 Alkyl Derivatives                                                    | 68648-87-3                          | 0.04%                                                    | 3.22E-05%                                                |
|                         |          |                          | Unsulphonated Matter                                                                 | Proprietary                         | 0.03%                                                    | 2.15E-05%                                                |
| Hydrochloric Acid (HCl) | FTSI     | Acid                     | Hydrogen Chloride                                                                    | 7647-01-0                           | 37%                                                      | 0.1626794%                                               |
|                         |          |                          | Water                                                                                | 7732-18-5                           | 63%                                                      | 0.2769946%                                               |
| B-10                    | FTSI     | High pH buffer           | Potassium carbonate                                                                  | 584-08-7                            | 48%                                                      | 0.017978%                                                |
|                         |          |                          | Potassium hydroxide                                                                  | 1310-58-3                           | 20%                                                      | 0.0074908%                                               |
|                         |          |                          | Water                                                                                | 7732-18-5                           | 55%                                                      | 0.0205997%                                               |
| BXL-2                   | FTSI     | Borate crosslinker       | Sodium metaborate                                                                    | 10555-76-7                          | 25%                                                      | 0.0111816%                                               |
|                         |          |                          | Boric acid                                                                           | 10043-35-3                          | 15%                                                      | 0.006709%                                                |
|                         |          |                          | Potassium hydroxide                                                                  | 1310-58-3                           | 12%                                                      | 0.0053672%                                               |
|                         |          |                          | Water                                                                                | 7732-18-5                           | 75%                                                      | 0.0335448%                                               |
| BXL-3                   | FTSI     | Crosslinker              | proprietary (borate) Salt                                                            | 1319-33-1                           | 40%                                                      | 0.0204745%                                               |
|                         |          |                          | Hydrated aluminium-magnesium silicate (polygorskite)                                 | 12174-11-7                          | 5%                                                       | 0.0025593%                                               |
|                         |          |                          | calcium carbonate                                                                    | 1317-65-3                           | 5%                                                       | 0.0025593%                                               |
|                         |          |                          | polyanionic cellulose                                                                | 9004-32-4                           | 1%                                                       | 0.0005119%                                               |
|                         |          |                          | modified polyacrylate                                                                | trade secret                        | 1%                                                       | 0.0005119%                                               |
|                         |          |                          | magnesium                                                                            | 16389-88-1                          | 1%                                                       | 0.0005119%                                               |
|                         |          |                          | water                                                                                | 7732-18-5                           | 50%                                                      | 0.0255932%                                               |
|                         |          |                          | potassium formate                                                                    | 590-29-4                            | 35%                                                      | 0.0179152%                                               |
|                         |          |                          | crystalline silica, quartz                                                           | 14808-60-7                          | 0.05%                                                    | 2.56E-05%                                                |
|                         |          |                          | sodium chloride                                                                      | 7647-14-5                           | 0.01%                                                    | 2.6E-06%                                                 |
| ICI-3240                | FTSI     | Biocide                  | Dazomet (Tetrahydro-3, 5-dimethyl-2H-1, 3, 5-thiadiazine-2-thione, Sodium Hydroxide) | 533-74-4                            | 24%                                                      | 0.005403%                                                |
| 40/70 White             | FTSI     | proppant                 | Water                                                                                | 7732-18-5                           | 23%                                                      | 0.0051779%                                               |
| 30/50 White             | FTSI     | proppant                 | Silica, Quartz                                                                       | 14808-60-7                          | 55%                                                      | 0.0123818%                                               |
| 20/40 White             | FTSI     | proppant                 | Silica, Quartz                                                                       | 14808-60-7                          | 100%                                                     | 2.4170399%                                               |
|                         |          |                          | Silica, Quartz                                                                       | 14808-60-7                          | 100%                                                     | 11.26506%                                                |
|                         |          |                          | Silica, Quartz                                                                       | 14808-60-7                          | 100%                                                     | 6.3660597%                                               |

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:    Rebecca Deal                      Title:    Regulatory Professional

Date:                      3/2/2016

E-mail Address:                      rebecca.deal@dmn.com

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