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.
30-025-36583

2. Well Name:
LIVESTOCK 9 FEDERAL #002

3. Well Number:
002

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ **Original**

☐ **Amendment**

4. Surface Hole Location:
Unit:G Lot:G Section:9 Township:22S Range:33E
Feet from:1450 N/S Line:N
Feet from:1950 E/W Line:E

5. Bottom Hole Location:
Unit:G Lot:G Section:9 Township:22S Range:33E
Feet from:1450 N/S Line:N
Feet from:1950 E/W Line:E

6. latitude: 32.4095498276354 longitude: -103.575262354715

7. County:
Lea

8. Operator Name and Address:
CHEVRON U S A INC
Attn: Sandy Stedman-Daniel
P.O. Box 2100
Houston 77252

9. OGRID: 4323

10. Phone Number: 505-333-1941

11. Last Fracture Date: 8/21/2012 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
51687

14. Gross Fractured Interval:
10,898 ft to 10,970 ft

15. True Vertical Depth (TVD):
15,345 ft

16. Total Volume of Fluid Pumped:
397,320 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)
Northern White Sand	Halliburton	Proppant -Natural	Crystalline Silica (Quartz Sand, Silicaon Dioxide)	014808-60-7	100%	3.08656%
100 Mesh Sand	Halliburton	Proppant Natural	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7	100%	2.29787%
ParaSorb	Baker Huges	Scale Inhibitor	Calcined Diatomaceous Earth	091053-39-3	65%	0.00496%
Para Sorb	Backer Hughes	Scale Inhibitor	Crystalline Silican (Quartz Sand, Silicon Dioxide)	014808-60-7	5%	0.00038%
ParaSorb	Baker Hughes	Scale Inhibitor	Mineral Oil	008042-47-5	30%	0.00229%
ParaSorb	Baker Hughes	Scale Inhibitor	Paraffin Inhibitor	N/A	25%	0.00191%
HCL Hydrochloric	Halliburton	Acid	Hydrochloric Acid	007647-01-0	15%	0.17207%
HCL Hydrochloric Acid	Halliburton	Acid	Water	007732-18-5	85%	0.97508%
FE-2	Halliburton	Iron Control Agent	Citric Acid	000077-92-9	100%	0.03193%
FE-1A	Halliburton	Iron Control Agent	Acatic Acid	000061-19-7	60%	0.01377%
FE-1A	Halliburton	Iron Control Agent	Acetic Anhydride	000108-24-7	100%	0.02294%
MO-67	Halliburton	PH Adjusting Agent	Sodium Hydroxide	001310-73-2	30%	0.0102%
Vicon NF Breaker	Halliburton	Breaker	Sodium Chloride	007647-14-5	30%	0.00918%
Vicon NF Breaker	Halliburton	Breaker	Sodium Chloride	007758-19-2	10%	0.00306%
FR-66	Halliburton	Friction Reducer	Petroleum Distillate Hydrotreated	06472-47-8	30%	0.00851%
CAT-OS-1	Halliburton	Activator	Ammonium Acetate	000631-61-8	30%	0.00613%
CAT-OS-1	Halliburton	Activator	Cobalt Acetate	000071-48-7	10%	0.00204%
HAI-OS	Halliburton	Corrosion Inhibitor	Methanol	000067-56-1	60%	0.00113%
HAI-OS	Halliburton	Corrosion Inhibitot	Propargyl Alcohol	000107-19-7	10%	0.00019%
CL-31	Halliburton	Cross Linker	Potassium Hydroxide	001310-58-3	5%	0.00022%
CL-31	Halliburton	Cross Linker	Potassium Metaborate	013709-94-9	60%	0.00267%
19N	Halliburton	Non-Emulsifier	Isopropanol	000067-63-0	10%	0.0002%
19N	Halliburton	Non-Emulsifier	Methanol	000067-56-1	60%	0.00117%
19N	Halliburton	Non-Emulsifier	Quaternary Ammonium	NA	60%	0.00117%
BC-200 UC	Halliburton	Cross Linker	Crystalline Silica	014808-60-7	5%	9E-05%
BC-200 UC	Halliburton	Cross Linker	Proprietary Hydrotreated Light Petroleum Distillate	Trade Secret	30%	0.00054%
MC S 2510T (WS)	Multi Chem	Scale Inhibitor	Ethylene Glycol	000107-21-1	60%	0.003%
MC S-2510T (WS)	Multi Chem	Scale Inhibitor	Sodium Hydroxide	001310-73-2	5%	0.0025%
MC MX 664-5	Multi Chem	Surfactant	Isopropanol	000067-63-0	5%	0.00109%
MC MX 664-5	Multi Chem	Surfactant	Methanol	000067-56-1	70%	0.01522%
MC MX 664-5	Multi Chem	Surfactant	Proprietary Sulfonate	Trade Secret	30%	0.00652%
MC B 8642 (WS)	Multi Chem	Anti-Bacterial agent	Ethanol	000064-17-5	1%	0.0001%
MC B-8642-(WS)	Multi Chem	Anti Bacterial Agent	Glutaraldehyde (Pentanediol)	000111-30-8	60%	0.000617%
MC B 8642 (WS)	Multi Chem	Anti Bacterial Agent	Quaternary Ammonium Compount	06842-85-1	10%	0.00103%

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: Cindy Herrera-Murillo Title: Permitting Specialist

Date: 11/21/2013

E-mail Address: eeof@chevron.com

NMOCD does not require the reporting of information beyond MSDS data as described in 29 CFR 1910.1200. NMOCD does not require the reporting or disclosure of proprietary, trade secret or confidential business information.