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. 30-005-29209
2. Well Name: SAN JACINTO 4 FEDERAL COM #004H
3. Well Number: 004H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:M Lot:M Section:4 Township:15S Range:31E
Feet from:330 N/S Line:S
Feet from:330 E/W Line:W

5. Bottom Hole Location:
Unit:M Lot:M Section:4 Township:15S Range:31E
Feet from:330 N/S Line:S
Feet from:330 E/W Line:W

6. latitude: 33.0386148365232 longitude: -103.834329914917

7. County: Chaves

8. Operator Name and Address:
CIMAREX ENERGY CO. OF COLORADO
202 S. Cheyenne Ave, Ste 1000
Tulsa 74103

9. OGRID: 162683

10. Phone Number: 918-295-1763

11. Last Fracture Date: 6/12/2014 Frac Performed by: Halliburton

12. Production Type: O

13. Pool Code(s): 97722

14. Gross Fractured Interval: 8,721 ft to 8,735 ft

15. True Vertical Depth (TVD): 8,735 ft

16. Total Volume of Fluid Pumped: 2,212,816 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)
Fresh Water	Operator	Base Fluid	Water	7732-18-5	100%	89.60271%
HYDROCHLORIC ACID 15%	Halliburton	Solvent	Hydrochloric acid	7647-01-0	30%	0.83335%
15% ZCA ACID	Halliburton	Solvent	Hydrochloric acid	7647-01-0	30%	0.84609%
			Hydrotreated light petroleum distillate	64742-47-8	30%	0.00845%
HAI-OS	Halliburton	Corrosion Inhibitor	Propargyl Alcohol	107-19-7	10%	0.00112%
			Methanol	67-56-1	60%	0.00671%
Premium White Sand	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	5.45995%
CRC Garnett Sand	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.69661%
			Hexamethylenetetramine	100-97-0	2%	0.05393%
			Phenol / formaldehyde resin	9003-35-4	5%	0.13483%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Proprietary	5%	0.00512%
			Glycerine	56-81-5	10%	0.0083%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.03073%
BA-40L BUFFERING AGENT	Halliburton	Buffer	Potassium carbonate	584-08-7	60%	0.01024%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.02333%
			Monoethanolamine borate	26038-87-9	100%	0.07777%
SGA-II	Halliburton	Gelling Agent	Hydrotreated light petroleum distillate	64742-47-8	30%	0.00474%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.18633%
Optiflo-III	Halliburton	Breaker	Ammonium persulfate	7727-54-0	100%	0.00662%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00284%
ClO2	Bosque	Biocide	Chlorine Dioxide	10049-04-4	100%	0.00019%
Ingredients Listed Below This Line Are Part of the			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0%	0%
			Acrylamide	79-06-1	0%	0%
			Alcohols, C10-16, ethoxylated	68002-97-1	0%	0%
			Bentonite, benzyl(hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Ethoxylated sorbitan monostearate	9005-67-8	0%	0%
			Modified acrylamide copolymer	Proprietary	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	0%	0%
			Surfactant mixture	Proprietary	0%	0%

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: Skipper Herring Title: Manager Stimulation Operations

Date: 7/24/2014

E-mail Address: sherring@cimarex.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.