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 February 15, 2012

1. WELL API NO.
30-025-39428

2. Well Name:
MCA UNIT #448

3. Well Number:
448

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:B Lot:B Section:26 Township:17S Range:32E
Feet from:660 N/S Line:N
Feet from:2630 E/W Line:E

5. Bottom Hole Location:
Unit:B Lot:B Section:26 Township:17S Range:32E
Feet from:660 N/S Line:N
Feet from:2630 E/W Line:E

6. latitude: 32.8109469113469 longitude: -103.737102783382

7. County:
Lea

8. Operator Name and Address:
CONOCOPHILLIPS COMPANY
3401 E. 30th Street
Farmington 87402

9. OGRID: 217817

10. Phone Number: 505-326-9518

11. Last Fracture Date: 4/1/2013 Frac Performed by: Trican

12. Production Type:
O

13. Pool Code(s):
43329

14. Gross Fractured Interval:
3,965 ft to 4,195 ft

15. True Vertical Depth (TVD):
4,436 ft

16. Total Volume of Fluid Pumped:
38,682 gals

17. **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	Customer	Carrier	Water	7732-18-5	100%	81.69272%
Brown 16/30	Trican	Proppant	Crystalline silica: Quartz (SiO2)	14808-60-7	100%	10.15802%
SiberProp 16/30 Mesh	Trican	Proppant	Crystalline silica: Quartz (SiO2)	14808-60-7	100%	7.09087%
			Resin	Proprietary	0%	0%
WG-111L (Slurried Guar Gellant)	Trican	Gelling Agent	Mineral oil/ light hydrotreated pet. distillate	64742-47-8	60%	0.28074%
			polysaccharide blend	9000-30-0	60%	0.28074%
AcTivator	Trican	Resin Activator	Alcohols, C12-14-secondary, ethoxylated	84133-50-6	70%	0.11017%
			Methanol	67-56-1	50%	0.07869%
			Polyethylene glycol	25322-68-3	5%	0.00787%
LCLM-30 (Borate Crosslinker)	Trican	Crosslinker	Potassium Metaborate	16481-66-6	99.8%	0.10012%
			Ethylene Glycol	107-21-1	25%	0.02508%
			Potassium hydroxide	1310-58-3	25%	0.02508%
pH-11 (pH Buffer)	Trican	pH Buffer	Potassium carbonate	584-08-7	38%	0.03678%
			Potassium hydroxide	1310-58-3	13%	0.01258%
BXL-A (Breaker Intensifier)	Trican	Breaker Activator	Triethanolamine	102-71-6	70%	0.06039%
			Diethanolamine	111-42-2	1%	0.00086%
S-15 (Surfactant)	Trican	Surfactant	Alcohol alkoxylate	Proprietary	20%	0.01541%
			Methanol	67-56-1	20%	0.01541%
Bactron K-31	Customer	Biocide	Gluteraraldehyde	111-30-8	25%	0.01256%
WBO-1 (Oxidizer Breaker)	Trican	Breaker	ammonium persulfate	7727-54-0	100%	0.01265%
Encap LP (Low temp Breaker)	Trican	Breaker	ammonium persulfate	7727-54-0	75%	0.00734%
			cured acrylic resin	Proprietary	16%	0.00157%
			Crystalline silica: Quartz (SiO2)	14808-60-7	10%	0.00098%
			Talc	14807-96-6	2%	0.0002%
			Resin	Proprietary	0%	0%
			propylene carbonate	108-32-7	0%	0%
			Sorbitan trioleate	26266-58-0	0%	0%
			Modified bentonite	68953-58-2	0%	0%
			Water	7732-18-5	0%	0%

18. 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: Ashley Martin Title: Staff Regulatory Technician

Date: 10/23/2013

E-mail Address: Ashley.Martin@conocophillips.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.