

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:
30-025-41209

2. Well Name:
RUBY FEDERAL #048

3. Well Number:
048

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒Original
☐Amendment

4. Surface Hole Location:
Unit:C Lot:C Section:18 Township:17S Range:32E
Feet from:280 N/S Line:N
Feet from:1700 E/W Line:W

5. Bottom Hole Location:
Unit:C Lot:C Section:18 Township:17S Range:32E
Feet from:280 N/S Line:N
Feet from:1700 E/W Line:W

6. Latitude:
32.841120920683 Longitude:
-103.808998401246

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:
9/14/2013 Frac Performed by: Haliburton

12. Production Type:
O

13. Pool Code(s):
44500

14. Gross Fractured Interval:
5,874 ft to 6,257 ft

15. True Vertical Depth (TVD):
6,903 ft

16. Total Volume of Fluid Pumped:
365,560 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)
Fresh Water	Operator				100%	79.31884%
FE ACID - >10% HCL	Halliburton		Hydrochloric acid	7647-01-0	30%	0.89465%
SSA-2	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	0.20813%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	14.74421%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.27282%
			Hexamethylenetetramine	100-97-0	2%	0.04546%
			Phenol / formaldehyde resin	9003-35-4	5%	0.11364%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.01864%
			Monoethanolamine borate	26038-87-9	100%	0.06212%
LOSURF-360W, 330 GA	Halliburton	Surfactant	Poly(oxy-1,2-ethanediyl), .alpha-isodecyl-omega-hydroxy	61827-42-7	30%	0%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00036%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.02892%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.02892%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00605%
ALDACIDE® G	Halliburton	Biocide	Glutaraldehyde	111-30-8	30%	0.01587%
ANTIMICROBIAL						
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.01301%
SCALECHECK LP-55	Halliburton	Scale Inhibitor	Polyacrylate	Confidential Business Information	60%	0.02901%
SCALE INHIBITOR						
LCA-1	Halliburton	Solvent	Paraffinic solvent	Confidential Business Information	100%	0.02138%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.00239%
			Silica, amorphous precipitated	67762-90-7	30%	0.00072%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.18311%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00137%
			Walnut hulls	Mixture	100%	0.00455%
K-35	Halliburton	Additive	Sodium carbonate	497-19-8	100%	0.00781%
Ingredients Listed Below This Line Are Part of the			1,2-Benzisothiazolin-3-one	2634-33-5	0%	0%
			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthalenyl) azo] -, trisodium salt	915-67-3	0%	0%
			2,7-Naphthalenedisulfonic acid, 5-(acetylamino) -4-hydroxy-3-[(2-methoxyphenyl) azo] -, disodium salt	6625-46-3	0%	0%
			Acetic acid	64-19-7	0%	0%
			Acetic anhydride	108-24-7	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Bentonite, benzyl (hydrogenated tallow alkyl) dimethylammonium stearate complex	121888-68-4	0%	0%
			C.I. Pigment Red 5	6410-41-9	0%	0%
			Calcium chloride	10043-52-4	0%	0%
			Citric acid	77-92-9	0%	0%
			Crystalline Silica, Quartz	14808-60-7	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Cured acrylic resin	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Food red 10	3734-67-6	0%	0%
			Methanol	67-56-1	0%	0%
			Polypropylene glycol	25322-69-4	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium sulfate	7757-82-6	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Surfactant mixture	Confidential Business Information	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

Staff Regulatory Title: Technician

Date: 10/16/2013

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

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