

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 8, 2013

1. WELL API NO:
30-015-42220

2. Well Name:
NORTH BRUSHY DRAW FEDERAL #009H

3. Well Number:
009H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:35 Township:25S Range:29E
Feet from:300 N/S Line:N
Feet from:260 E/W Line:E

5. Bottom Hole Location:
Unit:A Lot:A Section:35 Township:25S Range:29E
Feet from:300 N/S Line:N
Feet from:260 E/W Line:E

6. latitude: 0 longitude: 0

7. County:
Eddy

8. Operator Name and Address:
RKI EXPLORATION & PRODUCTION, LLC
210 PARK AVENUE
SUITE 900
OKLAHOMA CITY 73102

9. OGRID:
246289

10. Phone Number:
405-996-5774

11. Last Fracture Date: 5/25/2014 Frac Performed by: RKI EXPLORATION & PRODUCTION

12. Production Type:
O

13. Pool Code(s):
13354

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
9,290 ft

16. Total Volume of Fluid Pumped:
2,134,018 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				100%	84.67305%
HYDROCHLORIC ACID 10-30%	Halliburton		Hydrochloric acid	7647-01-0	30%	0.30694%
SAND - PREMIUM WHITE	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.44162%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.29017%
			Hexamethylenetetramine	100-97-0	2%	0.0458%
			Phenol / formaldehyde resin	9003-35-4	5%	0.11451%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.01584%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.04848%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00386%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.0122%
			Monoethanolamine borate	26038-87-9	100%	0.04065%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.02319%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.02319%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Methanol	67-56-1	60%	0.00102%
			Propargyl alcohol	107-19-7	10%	0.00017%
MC MX 5-3447	MultiChem	Surfactant	Methyl alcohol	67-56-1	30%	0.02225%
			Sulfonate	Confidential	13%	0.00964%
			Sulfonate	Confidential	7%	0.00519%
			Ethoxylated Alcohols	Confidential	7%	0.00519%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	5E-05%
			Glycerine	56-81-5	10%	0.0001%
			Poly(oxy-1,2-ethanediyl), alpha -isodecyl- omega -hydroxy-	61827-42-7	30%	0.00029%
SP BREAKER	Halliburton	Breaker	Sodium persulfate	7775-27-1	100%	0.00081%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.20865%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00247%
			Walnut hulls	Mixture	100%	0.00822%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.02601%
Ingredients Listed Below This Line Are Part of the			2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfor-1-naphthaleny)l] azo] -, trisodium salt	915-67-3	0%	0%
			Alcohols, C14-C15, ethoxylated	68951-67-7	0%	0%
			Alkane	Confidential Business Information	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%
			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%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0%	0%
			Fatty acids, tall oil	Confidential Business Information	0%	0%
			Hydrogen peroxide	7722-84-1	0%	0%
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Olefins	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Quaternary amine	Confidential Business Information	0%	0%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	0%	0%
			Silica gel	112926-00-8	0%	0%
			Sodium bicarbonate	144-55-8	0%	0%
			Sodium chloride	7647-14-5	0%	0%
			Sodium glycollate	2836-32-0	0%	0%
			Sodium hydroxide	1310-73-2	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%

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: Heather Brehm Title: Regulatory analyst

Date: 8/13/2014

E-mail Address: hbrehm@rkixp.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.