

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 APT NO:
30-015-42608

2. Well Name:
FLYING SQUIRREL FEDERAL #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:L Lot:3 Section:30 Township:18S Range:31E
Feet from:2000 N/S Line:S
Feet from:450 E/W Line:E

5. Bottom Hole Location:
Unit:L Lot: Section:29 Township:18S Range:31E
Feet from:2179 N/S Line:S
Feet from:342 E/W Line:E

6. latitude: 32.7167162754654 longitude: -103.901736597476

7. County: Eddy

9. Operator Name and Address:
COG OPERATING LLC
One Concho Center
600 W. Illinois Ave
Midland 79701

9. OGRID: 229137

10. Phone Number: 432-685-4332

11. Last Fracture Date: 11/9/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
56405

14. Gross Fractured Interval:
9,345 ft to 13,731 ft

15. True Vertical Depth (TVD):
8,840 ft

16. Total Volume of Fluid Pumped:
5,587,896 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%	85.72723%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.14463%
Premium White 20/40	Halliburton				100%	9.94245%
Premium CRC 20/40	Halliburton				100%	2.49329%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.03688%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.03688%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	0.00222%
			Glycerine	56-81-5	10%	0.00445%
			Poly(oxy-1,2-ethanediy), alpha.-isodecyl- omega.-hydroxy-	61827-42-7	30%	0.01335%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00417%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.00747%
Cia-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02838%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.0001%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	9E-05%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.00286%
			Silica, amorphous precipitated	67762-90-7	30%	0.00086%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Ethylene glycol	107-21-1	30%	0%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.0083%
			Monoethanolamine borate	26038-87-9	100%	0.02768%
FR-66	Halliburton	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8	30%	0.00059%
BE-6 MICROBIOCID	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	4E-05%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00162%
			Walnut hulls	Mixture	100%	0.00539%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.0138%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.13071%
OptiKleen-WF™	Halliburton	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.00022%
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%
			Acetic acid	64-19-7	0%	0%
			Acetic anhydride	109-24-7	0%	0%
			Alcohols, C12-16, ethoxylated	68551-12-2	0%	0%
			Alkane	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Amine salts	Confidential Business Information	0%	0%
			Ammonium chloride	12125-02-9	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%
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			Enzyme	Confidential Business Information	0%	0%
			Enzyme	Confidential Business Information	0%	0%
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-5	0%	0%
			Fatty acid tall oil amide	Confidential Business Information	0%	0%
			Hydrogen peroxide	7722-84-1	0%	0%
			Nitrotriactic acid, trisodium salt monohydrate	5064-31-3	0%	0%
			Polyacrylamide copolymer	Confidential Business Information	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 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%
			Sorbitan monoboleate polyoxyethylene derivative	9005-65-6	0%	0%
			Sorbitan, mono-9-octadecenoate, (Z)	1338-43-8	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Surfactant mixture	Confidential Business Information	0%	0%
			Trimethylamine, N-oxide	1184-78-7	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

Date: 12/16/2014

E-mail Address: sdavis@conchoresources.com

Printed Name: Stormi Davis

Title: Regulatory Analyst

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