

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.
30-025-43533

2. Well Name:
BLUE JAY FEDERAL COM #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:P Lot:P Section:18 Township:20S Range:35E
Feet from:210 N/S Line:S
Feet from:660 E/W Line:E

5. Bottom Hole Location:
Unit:A Lot:PA Section:18 Township:20S Range:35E
Feet from:200 N/S Line:N
Feet from:378 E/W Line:E

6. latitude:
32.566491 longitude:
-103.490171

7. County:
Lea

8. 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:
3/2/2017 Frac Performed by:
Halliburton

12. Production Type:
O

13. Pool Code(s):
97983

14. Gross Fractured Interval:
11,684 ft to 15,963 ft

15. True Vertical Depth (TVD):
11,510 ft

16. Total Volume of Fluid Pumped:
9,248,490 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%	89.51253%
Cla-Web(TM) II	Halliburton	Clay Stabilizer	Listed Below	Listed Below	0%	0%
DCA-23002	Halliburton	Friction Reducer	Listed Below	Listed Below	0%	0%
FDP-S1007-11	Halliburton	Surfactant	Listed Below	Listed Below	0%	0%
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Listed Below	Listed Below	0%	0%
HYDROCHLORIC ACID	Halliburton	Solvent	Listed Below	Listed Below	0%	0%
NA	Halliburton		Listed Below	Listed Below	0%	0%
OptiKleen-WF(TM)	Halliburton	Concentrate	Listed Below	Listed Below	0%	0%
Scalechek(R) SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Listed Below	Listed Below	0%	0%
Parasorb	Baker Hughes	Additive	Listed Below	Listed Below	0%	0%
Scaletrol	Baker Hughes	Scale Inhibitor	Listed Below	Listed Below	0%	0%
ACS 100	Harcros Chemicals Inc	Additive	Listed Below	Listed Below	0%	0%
ACS 200	Harcros Chemicals Inc	Additive	Listed Below	Listed Below	0%	0%
ACS 300	Occidental Chemical Corporation	Additive	Listed Below	Listed Below	0%	0%
MSDS and Non-MSDS Ingredients are listed below the					0%	0%
Ingredients	Listed Above	Listed Above	Acrylamide acrylate copolymer	9003-06-9	60%	0.05218%
			Acrylonitrile	107-13-1	0.1%	9E-05%
			Amine	Proprietary	0.1%	5E-05%
			Amine salts	Proprietary	1%	0.00054%
			Ammonium compound	Proprietary	30%	0.01469%
			Calcium Chloride	10043-52-4	5%	0.00137%
			Chlorine compound	Proprietary	30%	0.01469%
			Citrus, extract	94266-47-4	10%	0.00445%
			Crystalline silica:	14808-60-7	1%	7E-05%
			Quartz			
			Diatomaceous earth, calcined	91053-39-3	60%	0.00391%
			Ethoxylated alcohols	Proprietary	30%	0.00243%
			Ethoxylated fatty acid	Proprietary	10%	0.00445%
			Ethylene glycol	107-21-1	30%	0.0082%
			Fatty acids, tall oil	Proprietary	30%	0.00021%
			Glassy calcium magnesium phosphate	65997-17-3	100%	0.02141%
			Glycol	Proprietary	5%	0.00445%
			Hydrochloric acid	7647-01-0	60%	0.2718%
			Hydrochloric Acid	7647-01-0	20%	0.00076%
			Isopropanol	67-63-0	30%	0.01335%
			Methanol	67-56-1	60%	0.00042%
			Mineral oil	8042-47-5	30%	0.00196%
			NFIDB:NA	CAS Not Assigned	100%	9.77065%
			Olefins	Proprietary	5%	8E-05%
			Organic salt	Proprietary	0.1%	4E-05%
			Propargyl alcohol	107-19-7	10%	7E-05%
			Quaternary amine	Proprietary	1%	0.00098%
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30%	0.00021%
			Sodium chloride	7647-14-5	100%	0.08746%
			Sodium Chloride	7647-14-5	10.5%	0.00099%
			Sodium chlorite	7758-19-2	35%	0.0025%
			Sodium Hydroxide	1310-73-2	2.5%	0.00015%
			Sodium Hypochlorite	7681-52-9	15.6%	0.00094%
			Sodium perborate tetrahydrate	10486-00-7	100%	0.01045%
			Water	7732-18-5	100%	0.54581%

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:
Stormi Davis

Title:
Regulatory Analyst

Date:
5/3/2017

E-mail Address:
sdavis@conchoresources.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.