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.
30-015-40543

2. Well Name:
SUBMARINE 10 FEDERAL COM #003H

3. Well Number:
003H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:H Lot:H Section:10 Township:17S Range:29E
Feet from:1605 N/S Line:N
Feet from:85 E/W Line:E

5. Bottom Hole Location:
Unit:E Lot:E Section:10 Township:17S Range:29E
Feet from:1708 N/S Line:N
Feet from:342 E/W Line:W

6. latitude: 32.8520417401493 longitude: -104.054347665515

7. County:
Eddy

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: 4/24/2013 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
96610, 97917

14. Gross Fractured Interval:
5,607 ft to 9,725 ft

15. True Vertical Depth (TVD):
5,126 ft

16. Total Volume of Fluid Pumped:
1,314,264 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%	61.28712%
FE ACID - >10% HCL	Halliburton	Acid	Hydrochloric acid	7647-01-0	30%	4.8688%
100 MESH	Halliburton				100%	0.60123%
Brady Sand 16/30	Halliburton				100%	21.30909%
CRC 16/30	Halliburton				100%	3.38249%
SSA-2	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	0.15637%
SAND - PREMIUM BROWN	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	6.36682%
CRC SAND	Halliburton	Proppant	Crystalline silica, quartz	14808-60-7	100%	1.17365%
			Hexamethylenetetramine	100-97-0	2%	0.02347%
			Phenol / formaldehyde resin	9003-35-4	5%	0.05868%
Losurf 360 W	Halliburton				100%	0%
BE-7™	Halliburton	Biocide	Sodium hydroxide	1310-73-2	2%	0.00204%
			Sodium hypochlorite	7681-52-9	30%	0.03062%
LCA-1	Halliburton	Solvent	Paraffinic solvent	Confidential Business Information	100%	0.00534%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00031%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.03194%
			Monoethanolamine borate	26038-87-9	100%	0.10648%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.0211%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.0211%
CAT-106SI	Halliburton				100%	0%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.01341%
			Monoethanolamine borate	26038-87-9	100%	0.0447%
LOSURF-360W	Halliburton				100%	0%
BE-7™	Halliburton	Biocide	Sodium hydroxide	1310-73-2	2%	0.00091%
			Sodium hypochlorite	7681-52-9	30%	0.01358%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.00864%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.00864%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00018%
CAT-3 ACTIVATOR	Halliburton	Activator	EDTA/Copper chelate	Confidential Business Information	30%	0.01513%
K-35	Halliburton	Additive	Sodium carbonate	497-19-8	100%	0.0016%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.35397%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00353%
			Walnut hulls	Mixture	100%	0.01176%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.0816%

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: Chasity Jackson Title: Regulatory Analyst

Date: 10/15/2013

E-mail Address: cjackson@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.