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.
30-025-41097

2. Well Name:
HAAS 6 FEDERAL COM #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:6 Township:19S Range:32E
Feet from:330 N/S Line:N
Feet from:380 E/W Line:E

5. Bottom Hole Location:
Unit:1 Lot:1 Section:6 Township:19S Range:32E
Feet from:427 N/S Line:N
Feet from:337 E/W Line:W

6. latitude: 32.6958859137342 longitude: -103.798288941552

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: 12/7/2013 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
41450

14. Gross Fractured Interval:
9,501 ft to 13,460 ft

15. True Vertical Depth (TVD):
9,205 ft

16. Total Volume of Fluid Pumped:
2,919,570 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%	86.10892%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.21229%
Premium White - 20/40	Halliburton				100%	9.16272%
CRC - 20/40	Halliburton				100%	2.29191%
CLA-STA XP ADDITIVE	Halliburton	Clay Stabilizer	Polyepichlorohydrin, trimethyl amine quaternized	51838-31-4	60%	0.01025%
Cla-Web™	Halliburton	Additive	Ammonium salt	Confidential Business Information	60%	0.02725%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.03524%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.03524%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	8E-05%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.00861%
			Monoethanolamine borate	26038-87-9	100%	0.0287%
MO-67	Halliburton	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.00057%
D-AIR 3000L	Halliburton	Defoamer	Alkenes	Confidential Business Information	100%	0.00128%
			Silica, amorphous precipitated	67762-90-7	30%	0.00038%
Scaletrol	Halliburton				100%	0%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	8E-05%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.12743%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.00157%
			Walnut hulls	Mixture	100%	0.00522%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.02741%

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: Brian Maiorino Title: Regulatory Analyst

Date: 1/27/2014

E-mail Address: bmaiorino@concho.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.