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.
30-025-41520

2. Well Name:
COX 35 FEDERAL #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:P Lot:P Section:35 Township:23S Range:32E
Feet from:200 N/S Line:S
Feet from:400 E/W Line:E

5. Bottom Hole Location:
Unit:P Lot:P Section:35 Township:23S Range:32E
Feet from:200 N/S Line:S
Feet from:400 E/W Line:E

6. latitude: 32.2545140942441 longitude: -103.638116385821

7. County:
Lea

8. Operator Name and Address:
ENERGEN RESOURCES CORPORATION
2010 Afton Place
Farmington 87401

9. OGRID: 162928

10. Phone Number: 505-324-4154

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

12. Production Type:
O

13. Pool Code(s):
96603

14. Gross Fractured Interval:
11,592 ft to 15,285 ft

15. True Vertical Depth (TVD):
11,009 ft

16. Total Volume of Fluid Pumped:
2,203,971 gals

17. Total Volume of Re-Use Water Pumped:
0 gals

18. Percent of Re-Use Water in Fluid Pumped:
%

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	Fresh Water	7732-18-5	100%	83.39855%
Premium White 20/40	Halliburton Energy Services	Proppant	Crystalline silica, quartz	14808-60-7	100%	11.6455412%
OilPlus 20/40	Halliburton Energy Services	Proppant	Crystalline silica, quartz	14808-60-7	100%	2.5818886%
			Phenol/formaldehyde resin	9003-35-4	5%	0.1290944%
			Hexamethylenetetramine	100-97-0	2%	0.0516378%
Hydrochloric Acid 10-30%	Halliburton Energy Services	Solvent	Hydrochloric Acid	7647-01-0	30%	0.45758%
100 Mesh	Halliburton Energy Services	Proppant	Crystalline silica, quartz	14808-60-7	100%	0.3163385%
WG-36 Gelling Agent	Halliburton Energy Services	Gelling Agent	Guar gum	9000-30-0	100%	0.1329738%
Cla-Web	Halliburton Energy Services	Additive	Ammonium salt	Proprietary	60%	0.0437891%
Oil Perm H	Halliburton Energy Services	Surfactant	Methanol	67-56-1	60%	0.0199148%
			Quaternary ammonium	Proprietary	60%	0.0199148%
			Isopropanol	67-63-0	10%	0.0033191%
CL-22 UC	Halliburton Energy Services	Crosslinker	Potassium formate	590-29-4	60%	0.0386092%
CL-31 Crosslinker	Halliburton Energy Services	Crosslinker	Potassium metaborate	13709-94-9	60%	0.0250379%
			Potassium hydroxide	1310-58-3	5%	0.0020865%
MO-67	Halliburton Energy Services	pH Control Additive	Sodium hydroxide	1310-73-2	30%	0.0130535%
FR-66	Halliburton Energy Services	Friction Reducer	Hydrotreated light petroleum disillate	64742-47-8	30%	0.0085577%
BE-9	Halliburton Energy Services	Biocide	Tributyltetradecyl phosphonium chloride	81741-28-8	10%	0.0044653%
Optiflo-III Delayed Release Breaker	Halliburton Energy Services	Breaker	Ammonium persulfate	7727-54-0	100%	0.0031761%
			Crystalline silica, quartz	14808-60-7	30%	0.0009528%
Scalechek-LP65	Halliburton Energy Services	Scale Inhibitor	Ammonium chloride	12125-02-9	10%	0.0031049%
OptiKleen-WF	Halliburton Energy Services	Concentrate	Sodium perborate tetrahydrate	10486-00-7	100%	0.0012477%
SP Breaker	Halliburton Energy Services	Breaker	Sodium persulfate	7775-27-27-1	100%	0.0005898%

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: Sandy Aden Title: Production Analyst

Date: 11/13/2014

E-mail Address: neomi.luna@energen.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.