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.
30-015-41445

2. Well Name:
PUCKETT 12 FEDERAL #028H

3. Well Number:
028H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:12 Township:17S Range:31E
Feet from:210 N/S Line:N
Feet from:445 E/W Line:E

5. Bottom Hole Location:
Unit:P Lot:P Section:12 Township:17S Range:31E
Feet from:373 N/S Line:S
Feet from:346 E/W Line:E

6. latitude: 32.8558205156384 longitude: -103.816036862445

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: 4/29/2014 Frac Performed by: Halliburton

12. Production Type:
O

13. Pool Code(s):
26770

14. Gross Fractured Interval:
5,704 ft to 9,775 ft

15. True Vertical Depth (TVD):
5,434 ft

16. Total Volume of Fluid Pumped:
1,667,894 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%	79.22791%
FE ACID - <10% HCL	Halliburton		Hydrochloric acid	7647-01-0	10%	0.17806%
100 Mesh Sand	Halliburton				100%	0.27144%
20/40 Premium Brown	Halliburton				100%	15.57588%
16/30 CRC	Halliburton				100%	2.79945%
SUPERSET W	Halliburton	Activator	Methanol	67-56-1	60%	0.03728%
			Ethoxylated nonylphenol	Confidential Business Information	60%	0.03728%
BE-9	Halliburton	Biocide	Tributyl tetradecyl phosphonium chloride	81741-28-8	10%	0.00387%
LoSurf-360W	Halliburton	Surfactant	Complex alkylamine	Confidential Business Information	5%	0.00203%
			Glycerine	56-81-5	10%	0.00407%
			Poly(oxy-1,2-ethanediyl), .alpha.-isodecyl-.omega.-hydroxy-	61827-42-7	30%	0.0122%
BC-140 X2	Halliburton	Initiator	Ethylene glycol	107-21-1	30%	0.01624%
			Monoethanolamine borate	26038-87-9	100%	0.05412%
HpH BREAKER	Halliburton	Breaker	Sodium chloride	7647-14-5	30%	0.00013%
CAT 106SI	Halliburton				100%	0%
OPTIFLO-HTE	Halliburton	Breaker	Crystalline silica, quartz	14808-60-7	30%	0.0022%
			Walnut hulls	Mixture	100%	0.00732%
Scalechek® SCP-2 Scale Inhibitor	Halliburton	Scale Preventer	Glassy calcium magnesium phosphate	65997-17-3	100%	0.01527%
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Guar gum	9000-30-0	100%	0.12597%
BE-6 MICROBIOCIDE	Halliburton	Biocide	2-Bromo-2-nitro-1,3-propanediol	52-51-7	100%	0.0002%

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: Chasity Jackson Title: Regulatory Analyst

Date: 6/9/2014

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.