

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:
30-015-43844

2. Well Name:
CEDAR CANYON 16 STATE #033H

3. Well Number:
033H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:A Lot:A Section:16 Township:24S Range:29E
Feet from:402 Feet from:1123 N/S Line:N E/W Line:E

5. Bottom Hole Location:
Unit:O Lot: Section:16 Township:24S Range:29E
Feet from:178 Feet from:1865 N/S Line:S E/W Line:E

6. latitude:
32.22377334 longitude:
-103.9845542

7. County:
Eddy

8. Operator Name and Address:
OXY USA INC
PO Box 4294
Houston 77210

9. OGRID: 16696

10. Phone Number: 713-366-5716

11. Last Fracture Date: 11/28/2016 Frac Performed by: SCHLUMBERGER

12. Production Type:
O

13. Pool Code(s):
50373

14. Gross Fractured Interval:
10,100 ft to 14,518 ft

15. True Vertical Depth (TVD):
10,034 ft

16. Total Volume of Fluid Pumped:
7,333,216 gals

17. Total Volume of Re-Use Water Pumped:
N/A

18. Percent of Re-Use Water in Fluid Pumped:
Not Disclosed

10. HYDRAULIC FLUID COMPOSITION AND CONCENTRATION:

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)			
Proppant Transport	Schlumberger	Acid Corrosion Inhibitor, Surfactant, Scale Inhibitor, Gelling Agent, Demulsifier, Water Gelling Agent	Water (Including Mix Water Supplied by Client)*	CAS Not Assigned		89.84901%			
				Proprietary	1E-05%	1E-05%			
				Proprietary	0.00022%	2E-05%			
				Proprietary	1E-05%	1E-05%			
				Proprietary	1E-05%	1E-05%			
			Aliphatic polyol	Proprietary	0.00148%	0.00015%			
			Organo phosphorus salt	Proprietary	0.75033%	0.07617%			
			Urea	Proprietary	0.00567%	0.00058%			
			Tetrasodium ethylenediaminetetraacetate	GeDerl	0.00647%	0.00066%			
			Ethanol	64-17-5	1E-05%	1E-05%			
			Acetic acid	64-19-7	1E-05%	1E-05%			
			2-hydroxy-N,N,N-trimethylethanaminium chloride	67-48-1	0.32271%	0.03276%			
			Methanol (impurity)	67-56-1	0.00165%	0.00017%			
			Propan-2-ol	67-63-0	0.00666%	0.00068%			
			Propylene oxide	75-56-9	1E-05%	1E-05%			
			2-Propenamid (impurity)	GeDerl	0.00028%	3E-05%			
			Cinnamaldehyde	104-66-2	0.00044%	4E-05%			
			Ethylene Glycol	107-21-1	0.25125%	0.0255%			
			Fumaric acid	110-17-8	0.01141%	0.00116%			
			2,2'-Iminodiethanol	111-42-2	0.0006%	6E-05%			
			Oleic acid	112-80-1	1E-05%	1E-05%			
			Acetic acid, potassium salt	GeDerl	1E-05%	1E-05%			
			Disodium Ethylene Diamine Tetra Acetate (impurity)	139-33-3	0.00017%	2E-05%			
			Potassium oleate	143-18-0	1E-05%	1E-05%			
			Trisodium Ethylenediaminetetraacetate (impurity)	150-38-9	0.00017%	2E-05%			
			Dodecamethylcyclohexasiloxane	540-97-6	1E-05%	1E-05%			
			Decamethyl cyclopentasiloxane	GeDerl	1E-05%	1E-05%			
			Octamethylcyclotetrasiloxane	556-67-2	1E-05%	1E-05%			
			Methanesulfonic acid, hydroxy-, monosodium salt	870-72-4	0.01651%	0.00168%			
			Sodium hydroxide	1310-73-2	0.23464%	0.02382%			
			Boronatrocakite	1319-33-1	0.43398%	0.04405%			
			Sodium tetraborate	1330-43-4	0.03655%	0.00371%			
			Sodium Glycolate (impurity)	2836-32-0	0.00051%	5E-05%			
			Trisodium nitriolacetate (impurity)	5064-31-3	9E-05%	1E-05%			
			Potassium chloride	7447-40-7	0.0001%	1E-05%			
			Silicon Dioxide	7631-86-9	0.00359%	0.00036%			
			Sodium hydrogensulphite	7631-90-5	0.01651%	0.00168%			
			Hydrochloric acid	7647-01-0	0.4015%	0.04076%			
			Sodium chloride	7647-14-5	0.36982%	0.03754%			
			Monosodium fumarate	7704-73-6	0.01141%	0.00116%			
			Diammonium peroxidisulphate	7727-54-0	0.06444%	0.0064%			
			Sodium sulfate	7757-82-6	0.00132%	0.00013%			
			Copper(II) sulfate	7758-98-7	1E-05%	1E-05%			
			Ammonium sulfate	7783-20-2	0.11676%	0.01185%			
			Magnesium chloride	7786-30-3	0.05446%	0.00553%			
			Guar gum	9000-30-0	0.8796%	0.08929%			
			poly(tetrafluoroethylene)	9002-84-0	5E-05%	1E-05%			
			Dodecyl poly(oxyethylene) ether	9002-92-0	5E-05%	1E-05%			
			Methyl oxirane polymer with oxirane	GeDerl	0.00018%	2E-05%			
			Boric acid	10043-35-3	0.01142%	0.00116%			
			Calcium chloride	10043-52-4	0.00895%	0.00091%			
			Magnesium silicate hydrate (talc)	14807-96-6	0.00012%	1E-05%			
			Quartz, Crystalline silica	14808-60-7	95.8266%	9.72735%			
			Vinylidene chloride/methylacrylate copolymer	25038-72-6	0.00393%	0.0004%			
			Isodecanol w/6-7 Moles Ethylene Oxide	26183-52-8	0.00068%	7E-05%			
			Glycols, polyethylene, monotetradecyl ether	27306-79-2	4E-05%	1E-05%			
			Polyethylene glycol monohexyl ether	31726-34-8	0.05354%	0.00543%			
			Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	38193-60-1	0.08618%	0.00875%			
			Solid Unsaturated Polyester Resin	39382-21-3	4E-05%	1E-05%			
			Polyethylenimin, polymer with ethylene oxide and propylene oxide	52501-07-2	0.00044%	5E-05%			
			Glass fibers	60676-86-0	0.0043%	0.00044%			
			Amines, dicoco alkyl(methyl)	61788-62-3	0.00045%	5E-05%			
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00446%	0.00045%			
			Amines, tallow alkyl, ethoxylated	61791-26-2	0.00013%	1E-05%			
			Dimethyl siloxanes and silicones	63148-62-9	8E-05%	1E-05%			
			Alkyl (C10-c14) alcohols, ethoxylated	66455-15-0	9E-05%	1E-05%			
			Siloxanes and silicones, dimethyl, reaction products with silica	67762-90-7	1E-05%	1E-05%			
			Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane, 2-methyloxirane and oxirane	68123-18-2	0.00036%	4E-05%			
			Fatty acid, tall-oil reaction products with acetophenone	68188-40-9	0.00121%	0.00012%			
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.00101%	0.0001%			
			Amides, coco, N,N-bis(hydroxyethyl)	68603-42-9	0.00478%	0.00049%			
			Alcohol, C9-11-iso, C10, ethoxylated	78330-20-8	0.00597%	0.00061%			
			Alcohol, C11-14, ethoxylated	78330-21-9	9E-05%	1E-05%			
			Dutan gum	125005-87-0	0.00184%	0.00019%			
			Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	136793-29-8	0.00923%	0.00094%			
			† Proprietary Technology					0%	0%
			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: David Stewart		Title: Sr. Regulatory Advisor		
			Date: 1/11/2017						
			E-mail Address: david_stewart@oxy.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.						

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: David Stewart

Title: Sr. Regulatory Advisor

Date: 1/11/2017

E-mail Address: david_stewart@oxy.com

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