

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:
30-015-43642

2. Well Name:
CEDAR CANYON 22 FEDERAL #021H

3. Well Number:
021H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit: I Lot: I Section: 22 Township: 24S Range: 29E
Feet from: 2540 N/S Line: S
Feet from: 230 E/W Line: E

5. Bottom Hole Location:
Unit: E Lot: Section: 22 Township: 24S Range: 29E
Feet from: 1775 N/S Line: N
Feet from: 185 E/W Line: W

6. latitude: 32.20520193 longitude: -103.9640118

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: 1/19/2017 Frac Performed by: SCHLUMBERGER

12. Production Type: O

13. Pool Code(s): 96473

14. Gross Fractured Interval: 8,887 ft to 13,471 ft

15. True Vertical Depth (TVD): 8,718 ft

16. Total Volume of Fluid Pumped: 8,018,538 galls

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)
Proppant Transport	Schlumberger	Acid Corrosion Inhibitor, Scale Inhibitor, Water Gelling Agent, Non-Emulsifying Agent, Temporary Cla	Water (Including Mix Water Supplied by Client)*	CAS Not Assigned		88.887%
			Organo phosphorus salt	Proprietary	0.82339%	0.0815%
			Polymer of fatty acid	Proprietary	0.00066%	7E-05%
			Urea	57-13-6	0.00323%	0.00036%
			Tetrasodium ethylenediaminetetraacetate	GeOeral	0.00594%	0.00066%
			2-hydroxy-N,N,N-trimethylethanaminium chloride	67-48-1	0.12414%	0.0138%
			Methanol (impurity)	67-56-1	0.00181%	0.0002%
			Propan-2-ol	67-63-0	0.00497%	0.00055%
			2-Propenamide (impurity)	GeOeral	0.00016%	2E-05%
			Cinnamaldehyde	104-55-2	0.00049%	5E-05%
			Ethylene Glycol	107-21-1	0.14814%	0.01646%
			Fumaric acid	110-17-8	0.00673%	0.00075%
			Disodium Ethylene Diamine Tetra Acetate (impurity)	139-33-3	0.00016%	2E-05%
			Trisodium Ethylenediaminetetraacetate (impurity)	150-38-9	0.00016%	2E-05%
			Dodecamethylcyclotetrasiloxane	540-97-6	1E-05%	1E-05%
			Decamethyl cyclotetrasiloxane	GeOeral	1E-05%	1E-05%
			Octamethylcyclotetrasiloxane	556-67-2	1E-05%	1E-05%
			Methanesulfonic acid, hydroxy-, monosodium salt	870-72-4	0.01811%	0.00201%
			Sodium hydroxide	1310-73-2	0.15261%	0.01696%
			Boronatrocaltite	1319-33-1	0.25588%	0.02844%
			Sodium tetraborate	1330-43-4	0.02155%	0.00239%
			Sodium Glycolate (impurity)	2836-32-0	0.00047%	5E-05%
			Trisodium nitrilotriacetate (impurity)	5064-31-3	8E-05%	1E-05%
			Potassium chloride	7447-40-7	5E-05%	1E-05%
			Silicon Dioxide	7631-86-9	0.00267%	0.0003%
			Sodium hydrogensulphite	7631-90-5	0.01811%	0.00201%
			Hydrochloric acid	7647-01-0	0.95368%	0.10598%
			Sodium chloride	7647-14-5	0.37993%	0.04222%
			Monosodium fumarate	7704-73-6	0.00673%	0.00075%
			Diammonium peroxodisulphate	7727-54-0	0.06674%	0.00742%
			Sodium sulfate	7757-82-6	0.00075%	8E-05%
			Copper(II) sulfate	7758-98-7	1E-05%	1E-05%
			Ammonium sulfate	7783-20-2	0.06661%	0.0074%
			Magnesium chloride	7786-30-3	0.02095%	0.00233%
			Guar gum	9000-30-0	0.7341%	0.08158%
			poly(tetrafluoroethylene)	9002-84-0	5E-05%	1E-05%
			Dodecyl poly(oxyethylene) ether	9002-92-0	6E-05%	1E-05%
			Boric acid	10043-35-3	0.00673%	0.00075%
			Calcium chloride	10043-52-4	0.00373%	0.00041%
			Magnesium silicate hydrate (talc)	14807-96-6	0.00013%	1E-05%
			Quartz, Crystalline silica	14808-60-7	96.06896%	10.67592%
			Vinylidene chloride/methylacrylate copolymer	25038-72-6	0.00419%	0.00047%
			Isodecanol w/6-7 Moles Ethylene Oxide	26183-52-8	0.00075%	8E-05%
			Glycols, polyethylene, monotetradecyl ether	27306-79-2	4E-05%	1E-05%
			Polyethylene glycol monohexyl ether	31726-34-8	0.04631%	0.00515%
			Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt, polymer	38193-60-1	0.04917%	0.00546%
			Amines, dicoco alkyl/methyl	61788-62-3	0.00039%	4E-05%
			Dicoco dimethyl quaternary ammonium chloride	61789-77-3	0.00386%	0.00043%
			Amines, tallow alkyl, ethoxylated	61791-26-2	0.00014%	2E-05%
			Dimethyl siloxanes and silicones	63148-62-9	5E-05%	1E-05%
Siloxanes and silicones, dimethyl, reaction products with silica	67762-90-7	1E-05%	1E-05%			
Fatty acid, tall-oil reaction products with acetophenone	68188-40-9	0.00133%	0.00015%			
Alcohols, C12-C16, ethoxylated	68551-12-2	0.00111%	0.00012%			
Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	0.00035%	4E-05%			
Diutan gum	125005-87-0	0.00034%	4E-05%			
Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	136793-29-8	0.00527%	0.00059%			

† Proprietary Technology

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
Date: 2/23/2017
E-mail Address: david_stewart@oxy.com

Printed Name: David Stewart

Title: Sr. Regulatory Advisor

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