

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:
30-025-41462

2. Well Name:
COPPERHEAD 18 STATE #004H

3. Well Number:
004H

HYDRAULIC FRACTURING FLUID
DISCLOSURE

☒ Original
☐ Amendment

4. Surface Hole Location:
Unit:B Lot:B Section:18 Township:24S Range:33E
Feet from:340 N/S Line:N E/W Line:E
Feet from:1980

5. Bottom Hole Location:
Unit:O Lot:O Section:18 Township:24S Range:33E
Feet from:194 N/S Line:S E/W Line:E
Feet from:1955

6. latitude:
32.2240325272819 longitude:
-103.609320775211

7. County:
Lea

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

9. OGRID:
16696

10. Phone Number:
713-366-5069

11. Last Fracture Date:
6/22/2014 Frac Performed by:
Nabors

12. Production Type:
O

13. Pool Code(s):
96674

14. Gross Fractured Interval:
10,925 ft to 15,087 ft

15. True Vertical Depth (TVD):
10,979 ft

16. Total Volume of Fluid Pumped:
2,110,542 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)
Water	OCCIDENTAL PETROLEUM	Water	Water	7732-18-5	100%	85.21238%
Acid Inhibitor 3M (AI-3M)	Nabors Completion and Production Services	Acid Corrosion Inhibitors	1-DECANOL	112-30-1	5%	0.00013%
			1-OCTANOL	111-87-5	2.5%	7E-05%
			2-Butoxyethanol	111-76-2	7%	0.00018%
			Cinnamaldehyde	104-55-2	6%	0.00016%
			Ethoxylated Nonyphenol	68412-54-4	5%	0.00013%
			Ethylene Glycol	107-21-1	40%	0.00104%
			Isopropyl Alcohol	67-63-0	2.5%	7E-05%
HCl Acid (12.5-18.0%), 22 Baume	Nabors Completion and Production Services	Bulk Acid	N,N-Dimethylformamide	68-12-2	20%	0.00052%
			Triethyl Phosphate	78-40-0	2.5%	7E-05%
			22° Baume Hydrochloric Acid	7647-01-0	100%	0.06862%
KR-153SL	Nabors Completion and Production Services	Biocides	Water	7732-18-5	100%	0.08387%
			2,2-dibromo-3-nitriopropionamide	10222-01-2	20%	0.00435%
ClayTreat LT	Nabors Completion and Production Services	Clay Control Additives	Polyethylene-Glycol	25322-68-3	50%	0.01088%
			Water	7732-18-5	65%	0.03559%
XLSTA-1	Nabors Completion and Production Services	Cross-linkers	Sodium Thiosulfate	7772-98-7	30%	0.0271%
			Water	7732-18-5	70%	0.06324%
EXP-F0829-13	Nabors Completion and Production Services	Gel Breakers	Hemicellulase Enzyme	Proprietary	1%	5E-05%
OB-2	Nabors Completion and Production Services	Gel Breakers	Ammonium Persulfate	7727-54-0	100%	0.00487%
			Sillica, crystalline quartz	7631-86-9	10%	0.00049%
LSG-100	Nabors Completion and Production Services	Gelling Agents	guar gum	9000-30-0	50%	0.23276%
			Petroleum Distillates	64742-47-8	60%	0.27931%
Super LT Resin Activator	Nabors Completion and Production Services	Proppants - Manufactured	Surfactant	68439-51-0	2%	0.00931%
			Isopropyl Alcohol	67-63-0	60%	0.02918%
Super OW 3	Nabors Completion and Production Services	Surfactants & Foamers	Proprietary	Proprietary	80%	0.0389%
			Dimethylcocoamine, bis (chloroethyl) ether, diquaternary ammonium salt	68607-28-3	60%	0.00066%
TX Specific 40/70 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - Texas	Isopropyl Alcohol	67-63-0	60%	0.00066%
			Methanol	67-56-1	30%	0.00033%
			Aluminum Oxide	1344-28-1	1.1%	0.00219%
			Crystalline Silica, quartz	14808-60-7	99.9%	0.19852%
			Iron Oxide	1309-37-1	0.1%	0.0002%
Santrol Super LC 20/40	Nabors Completion and Production Services	Proppants - Manufactured - Santrol	Titanium Oxide	13463-67-7	0.1%	0.0002%
			Aluminum Oxide	1344-28-1	1%	0.07735%
			Crystalline Silica (Quartz)	14808-60-7	89%	6.88397%
			Iron Oxide	1309-37-1	0.1%	0.00774%
			phenolic resin	9003-35-4	20%	1.54696%
Santrol Super LC 30/50	Nabors Completion and Production Services	Proppants - Manufactured - Santrol	Titanium Oxide	13463-67-7	0.1%	0.00774%
			Aluminum Oxide	1344-28-1	1%	0.0568%
			Crystalline Silica (Quartz)	14808-60-7	89%	5.05556%
			Iron Oxide	1309-37-1	0.1%	0.00568%
			phenolic resin	9003-35-4	20%	1.13608%
XL-11	Nabors Completion and Production Services	Cross-linkers	Titanium Oxide	13463-67-7	0.1%	0.00568%
			Ethylene Glycol	107-21-1	10%	0.01453%
			Potassium Hydroxide	1310-58-3	5%	0.00726%
			Potassium Metaborate	13709-94-9	30%	0.04358%
			Water	7732-18-5	75%	0.10894%
Super Stim-240 E	Nabors Completion and Production Services	Surfactants & Foamers	Water	7732-18-5	20%	0.0314%
			Alcohol Ethoxylate Surfactants	Proprietary		
			Methyl Alcohol	67-56-1	20%	0.0314%
SUPER TSC-LTS	Nabors Completion and Production Services	Paraffin & Scale Additives	Water	7732-18-5	80%	0.12558%
			Water	7732-18-5	60%	0.01245%
IC-500	Nabors Completion and Production Services	Iron Control Additives	Water	7732-18-5	75%	0.003%
			2-Mercaptoethanol or Thioglycol	60-24-2		
			Aqua Ammonia	1336-21-6	5%	0.0002%
			Cupric Chloride	10125-13-0	7%	0.00028%

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:
11/20/2014
E-mail Address:
david_stewart@oxy.com

Printed Name:
David Stewart

Title:
Sr. Regulatory Advisor

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