

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 February 15, 2012

1. WELL API NO.
30-015-39431

2. Well Name:
GOODNIGHT 27 FEDERAL #005H

3. Well Number:
005H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:M Lot:M Section:27 Township:23S Range:29E
Feet from:906 N/S Line:S
Feet from:459 E/W Line:W

5. Bottom Hole Location:
Unit:M Lot:M Section:27 Township:23S Range:29E
Feet from:906 N/S Line:S
Feet from:459 E/W Line:W

6. latitude: longitude:
32.2710929159569 -
103.979699253381

7. County:
Eddy

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

9. OGRID:
16696

10. Phone Number:
713-366-5485

11. Last Fracture Date: 12/27/2012 Frac Performed by: Nabors Completion and Production Services

12. Production Type:
O

13. Pool Code(s):
96878

14. Gross Fractured Interval:
7,400 ft to 10,200 ft

15. True Vertical Depth (TVD):
10,409 ft

16. Total Volume of Fluid Pumped:
12,788 bbls

17. 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 Permian LTD	Water	Water	7732-18-5	100%	84.540563%
HCL Acid (12.5%-18.0%)	Nabors Completion and Production Services	Bulk Acid	Hydrogen Chloride	7641-01-1	18%	0.369842%
			Water	7732-18-5	87.5%	1.797842%
Acid Inhibitor 3M (AI-3M)	Nabors Completion and Production Services	Acid Corrosion Inhibitors	2-Butoxyethanol	111-76-2	3%	9.7E-05%
			Cinnamaldehyde	104-55-2	5%	0.000162%
			Ethoxylated Nonyphenol	68412-54-4	5%	0.000162%
			Ethylene Glycol	107-21-1	37%	0.001196%
			Isopropyl Alcohol	67-63-0	3%	9.7E-05%
			N,N-Dimethylformamide	68-12-2	13%	0.00042%
			Polyethylene-Glycol	25322-68-3	5%	0.000162%
			Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	10%	0.000323%
			Triethyl Phosphate	78-40-0	3%	9.7E-05%
			Water	7732-18-5	25%	0.000808%
KR-153SL	Nabors Completion and Production Services	Biocides	2,2-dibromo-3-nitripropionamide	10222-01-2	20%	0.004555%
			Water	7732-18-5	80%	0.018221%
ClayTreat LT	Nabors Completion and Production Services	Clay Control Additives	ammonium, (2-Hydroxyethyl)trimethyl-, chloride	67-48-1	80%	0.053917%
			Demineralized Water	7732-18-5	50%	0.033698%
XL-11	Nabors Completion and Production Services	Cross-linkers	Ethylene Glycol	107-21-1	10%	0.014746%
			Potassium Hydroxide	1310-58-3	5%	0.007373%
			Potassium Metaborate	13709-94-9	30%	0.044239%
			Water	7732-18-5	75%	0.110598%
EB-4L	Nabors Completion and Production Services	Gel Breakers	Breaker Component	Proprietary	0%	0.000885%
			Cellulase enzyme	Proprietary	0%	0.000885%
			Demulsifier Base	Proprietary	0%	0.000885%
			Ethylene Glycol	107-21-1	25%	0.000221%
			Sugar	67-50-1	0%	0.000885%
			Water	7732-18-5	0%	0.000885%
OB Breaker	Nabors Completion and Production Services	Gel Breakers	Acetaldehyde	75-07-0	2%	0.000754%
			AMINES, COCO ALKYL	61788-48-3	5%	0.001886%
			Amines, Dicoco Alkyl	61789-76-2	5%	0.001886%
			Ammonium Persulfate	7727-54-0	100%	0.037711%
			Ammonium Persulfate	7727-54-0	100%	0.037711%
			Deionized Water	7732-18-5	50%	0.018855%
			Dioxane	123-91-1	2%	0.000754%
			Ethylene Oxide	75-21-8	2%	0.000754%
			Proprietary	Proprietary	1%	0.000377%
LSG-100L	Nabors Completion and Production Services	Gelling Agents	guar gum	9000-30-0	50%	0.173021%
			Petroleum Distillates	64742-47-8	60%	0.207625%
			Surfactant	68439-51-0	2%	0.006921%
			Suspending agent (solid)	14808-60-7	2%	0.006921%
IC-500	Nabors Completion and Production Services	Iron Control Additives	2-Mercaptoethanol	60-24-2	75%	0.004675%
			Aqua Ammonia	1336-21-6	12%	0.000748%
			Cupric Chloride	10125-13-0	7%	0.000436%
			Potassium Iodide	7681-11-0	1%	6.2E-05%
			Water	7732-18-5	7%	0.000436%
ULT Resin Sand Activator	Nabors Completion and Production Services	Proppants - Manufactured	Acetaldehyde	75-07-0	0.01%	9E-06%
			Alcohols, C12-14-Secondary,Ethoxylated	84133-50-6	70%	0.065788%
			Dioxane	123-91-1	0.01%	9E-06%
			Ethylene Oxide	75-21-8	0.01%	9E-06%
			Formalin	50-00-0	0.01%	9E-06%
			Methanol	67-56-1	0.01%	9E-06%
			Polyethylene-Glycol	25322-68-3	5%	0.004699%
Super TSC-LT	Nabors Completion and Production Services	Paraffin & Scale Additives	Proprietary	Proprietary	15%	0.00753%
			Proprietary	Proprietary	15%	0.00753%
			Proprietary	Proprietary	15%	0.00753%
			Proprietary	Proprietary	50%	0.025099%
			Water	7732-18-5	60%	0.030119%
Super Stim-240 E	Nabors Completion and Production Services	Surfactants & Foamers	Alcohol Ethoxylate Surfactants	Proprietary	20%	0.01275%
			Methyl Alcohol	67-56-1	20%	0.01275%
			Water	7732-18-5	80%	0.050999%
Super OW 3	Nabors Completion and Production Services	Surfactants & Foamers	Dimethylcocoamine, bis (chloroethyl) ether, diquaternary ammonium salt	68607-28-3	60%	0.001031%
			Dimethyldiallylammonium chloride	7398-69-83	5%	8.6E-05%
			Isopropyl Alcohol	67-63-0	60%	0.001031%
			Methanol	67-56-1	30%	0.000516%
			Water	7732-18-5	60%	0.001031%
TX Specific 20/40 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - Texas	Aluminum Oxide	1344-28-1	1.1%	0.028039%
			Crystalline Silica, quartz	14808-60-7	99.9%	2.546475%
			Iron Oxide	1309-37-1	0.1%	0.002549%
			Titanium Oxide	13463-67-7	0.1%	0.002549%
Momentive SB Excel 20/40	Nabors Completion and Production Services	Proppants - Manufactured - Momentive	Aluminum Oxide	1344-28-1	1%	0.100143%
			Crystalline Silica (Quartz)	14808-60-7	89%	8.912768%
			Iron Oxide	1309-37-1	0.1%	0.010014%
			phenolic resin	9003-35-4	20%	2.002869%
			Titanium Oxide	13463-67-7	0.1%	0.010014%

18. 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: KAREN M SINARD

Title: _____

Date: 1/28/2013

E-mail Address: karen_sinard@oxy.com

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