

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:  
30-025-42173

2. Well Name:  
RAPTOR WEST 3 STATE #004H

3. Well Number:  
004H

4. Surface Hole Location:  
Unit:P Lot:P Section:3 Township:19S Range:34E  
Feet from:250 N/S Line:S  
Feet from:330 E/W Line:E

5. Bottom Hole Location:  
Unit:P Lot:P Section:3 Township:19S Range:34E  
Feet from:250 N/S Line:S  
Feet from:330 E/W Line:E

6. latitude: 32.6827916344356 longitude: -103.540707411411

7. County: Lea

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒Original

☐Amendment

8. Operator Name and Address:  
NADEL AND GUSSMAN PERMIAN, LLC  
601 N MARIENFELD  
SUITE 508  
MIDLAND 79701

9. OGR.ID: 155615

10. Phone Number:

11. Last Fracture Date: 1/26/2015 Frac Performed by: NABORS COMPLETION & PRODUCTION SERVICES CO.

12. Production Type: O

13. Pool Code(s): 55610

14. Gross Fractured Interval: 10,924 ft to 14,995 ft

15. True Vertical Depth (TVD): 10,715 ft

16. Total Volume of Fluid Pumped: 33,312,664 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	NADEL & GUSSMAN	WATER	WATER	7732-18-5	100%	96.62561%
NM SPECIFIC 20/40 MESH SAND	NABORS COMPLETION AND PRODUCTION SERVICES	SAND-BULK-NEW MEXICO	CRYSTALLINE SILICA, QUARTZ ALUMINUM OXIDE TITANIUM OXIDE IRON OXIDE	14808-60-7 1344-28-1 1309-37-1 1309-37-1	99.9% 1.1% 0.1% 0.1%	9.08058% 0.09696% 0.00909% 0.00909%
MOMENTIVE BLACK ULTRA 20/40	NABORS COMPLETION AND PRODUCTION SERVICES	PROPPANTS- MANUFACTURED- MOMENTIVE	QUARTZ (SiO2) FURFURYL ALCOHOL	14808-60-7 98-00-0	100% 1%	3.12218% 0.03122%
LSG-100	NABORS COMPLETION AND PRODUCTION SERVICES	GELLING AGENTS	PETROLEUM DISTILLATES GUAR GUM SURFACTANT	64742-47-8 9000-30-0 68439-51-0	60% 50% 2%	0.21817% 0.18181% 0.00727%
NM SPECIFIC 100 MESH	NABORS COMPLETION AND PRODUCTION SERVICES	SAND-BULK-NEW MEXICO	CRYSTALLINE SILICA, QUARTZ ALUMINUM OXIDE IRON OXIDE TITANIUM OXIDE	14808-60-7 1344-28-1 1309-37-1 13463-67-7	99.9% 1.1% 0.1% 0.1%	0.33303% 0.00367% 0.00033% 0.00033%
XL-11	NABORS COMPLETION AND PRODUCTION SERVICES	CROSS-LINKERS	WATER POTASSIUM METABORATE ETHYLENE GLYCOL POTASSIUM HYDROXIDE	7732-18-5 13709-94-9 107-21-1 1310-58-3	75% 30% 10% 5%	0.0804% 0.03216% 0.01072% 0.00536%
HCL ACID (12.5% - 18.0%)	NABORS COMPLETION AND PRODUCTION SERVICES	BULK ACID	20 BAUME HYDROCHLORIC ACID	7647-01-0	100%	0.06068%
HCL ACID (12.5%-18.0%)	NABORS COMPLETION AND PRODUCTION SERVICES	BULK ACID	WATER	7732-18-5	100%	0.05948%
SUPER STIM-340 E	NABORS COMPLETION AND PRODUCTION SERVICES	SURFACTANTS & FOAMERS	NON-HAZARDOUS MIXTURE	PROPRIETARY	100%	0.0469%
XLSTA-1	NABORS COMPLETION AND PRODUCTION SERVICES	CROSS-LINKERS	WATER SODIUM THIOSULFATE	7732-18-5 7772-98-7	70% 30%	0.02644% 0.01133%
CLAY TREAT PP	NABORS PRODUCTION AND COMPLETION SERVICES	CLAY CONTROL ADDITIVES	PROPRIETARY ETHYLENE GLYCOL	PROPRIETARY 107-21-1	40% 25%	0.01956% 0.01223%
WFR-6W	NABORS COMPLETION AND PRODUCTION SERVICES	FRICTION REDUCER	ANIONIC WATER-SOLUBLE POLYMER EMULSION	PROPRIETARY	100%	0.02339%
SUPER TSC 2 LTS	NABORS COMPLETION AND PRODUCTION SERVICES	PARAFFIN & SCALE ADDITIVES	METHANOL AMINO METHYLENE PHOSPHONIC ACID SALT	67-56-1 68649-44-5	100% 100%	0.01729% 0.00469%
AQUICAR DB 20	NABORS COMPLETION AND PRODUCTION SERVICES	BIOCIDES	POLYETHYLENE GLYCOL 2,2-DIBROMO-3-NITRILOPROPIONAMIDE (DBNPA) SODIUM BROMIDE DIBROMOACETONITRILE	25322-68-3 10222-01-2 7647-15-6 3252-43-5	54.5% 20% 4% 3%	0.01178% 0.00432% 0.00087% 0.00065%
SUPER GREEN SOLV-M	NABORS COMPLETION AND PRODUCTION SERVICES	PARAFFIN & SCALE ADDITIVES	ALIPHATIC HYDROCARBONS DODECANE TETRADECANE TRIDECANE UNDECANE	PROPRIETARY PROPRIETARY PROPRIETARY PROPRIETARY PROPRIETARY	95% 14% 11% 9% 8%	0.0083% 0.00145% 0.00114% 0.00093% 0.00083%
EXP-F0114-5	NABORS COMPLETION AND PRODUCTION SERVICES	PARAFFIN & SCALE ADDITIVES	GLYCOL ETHERS ETHOXYLATED NONYLPHENOL 1,2-ETHANEDIAMINE, POLYMER WITH METHYLOXIRANE AND OXIRANE ISOPROPYL ALCOHOL	111-76-2 68412-54-4 26316-40-5 67-63-0	40% 30% 20% 20%	0.0035% 0.00263% 0.00175% 0.00175%
OB-2	NABORS COMPLETION AND PRODUCTION SERVICES	GEL BREAKERS	AMMONIUM PERSULFATE SILICA, CRYSTALLINE QUARTZ	7727-54-0 7631-86-9	100% 10%	0.00785% 0.00079%
ACID INHIBITOR 3M (AI-3M)	NABORS COMPLETION AND PRODUCTION SERVICES	ACID CORROSION INHIBITORS	ETHYLENE GLYCOL N,N-DIMETHYLFORMAMIDE 2-BUTOXYETHANOL CINNAMALDEHYDE ETHOXYLATED NONYLPHENOL 1-DECANOL ISOPROPYL ALCOHOL TRIETHYL PHOSPHATE 1-OCTANOL	107-21-1 68-12-2 111-76-2 104-55-2 68412-54-4 112-30-1 67-63-0 78-40-0 111-87-5	40% 20% 7% 6% 5% 5% 2.5% 2.5%	0.00163% 0.00082% 0.00029% 0.00025% 0.0002% 0.0002% 0.0001% 0.0001% 0.0001%
IC-100L	NABORS COMPLETION AND PRODUCTION SERVICES	IRON CONTROL ADDITIVES	CITRIC ACID ANHYDROUS	77-92-9	50%	0.00221%
OB BREAKER	NABORS COMPLETION AND PRODUCTION SERVICES	GEL BREAKERS	AMMONIUM PERSULFATE	7727-54-0	100%	0.00058%
SUPER OW 4	NABORS COMPLETION AND PRODUCTION SERVICES	SURFACTANTS & FOAMERS	2-BUTOXYETHANOL FATTY AMIDE, SODIUM SALT GLYCERIN	111-76-2 PROPRIETARY 56-81-5	15% 15% 5%	0.00015% 0.00015% 5E-05%
EB-20L	NABORS COMPLETION AND PRODUCTION SERVICES	GEL BREAKERS	HEMICELLULASE ENZYME	PROPRIETARY	1%	5E-05%
OTHER INGREDIENTS	NABORS COMPLETION AND PRODUCTION SERVICES	OTHER INGREDIENTS	WATER DI WATER COPOLYMER WATER WATER CRYSTALLINE SILICA (IN THE FORM OF QUARTZ) ORGANOPHYLIC CLAY WATER ISOPARAFFINIC SOLVENT PROPRIETARY PROPRIETARY PROPRIETARY PROPRIETARY COMPONENTS BELOW REPORTABLE LEVELS PROPRIETARY WATER VINYLIDENE CHLORIDE-METHYL ACRYLATE COPOLYMER PROPRIETARY WATER ETHYLENE GLYCOL 107-21-1 ETHOXYLATED ALCOHOLS PROPRIETARY SURFACTANT BLEND TAR BASES, QUINOLINE DERIVS, BENZYL CHLORIDE-QUATERNIZED MONOBROMO-3-NITRILOPROPIONAMIDE 2,2-DIBROMOMALONAMIDE POLYETHYLENE-GLYCOL 2-PROPENAMIDE AS RESIDUAL PROPRIETARY PROPRIETARY PROPRIETARY	7732-18-5 7732-18-5 PROPRIETARY 7732-18-5 7732-18-5 14808-60-7 68953-58-2 7732-18-5 64742-47-8 PROPRIETARY PROPRIETARY PROPRIETARY 2687-96-9 7732-18-5 25038-72-6 PROPRIETARY 7732-18-5 107-21-1 PROPRIETARY PROPRIETARY 72480-70-7 73003-80-2 73003-80-2 25322-68-3 79-06-1 PROPRIETARY PROPRIETARY PROPRIETARY	100% 90% 100% 100% 40% 2% 2% 32% 28% 100% 10% 40% 5% 50% 25% 100% 25% 4% 4% 90% 3% 13% 1% 1% 1% 0.1% 2% 0.1% 0.1%	0.0469% 0.04221% 0.02339% 0.01038% 0.00936% 0.00727% 0.00727% 0.00692% 0.00608% 0.00478% 0.00469% 0.0035% 0.00235% 0.00221% 0.00196% 0.00106% 0.00102% 0.00094% 0.00094% 0.00087% 0.0007% 0.00053% 0.00022% 0.00022% 4E-05% 2E-05% 2E-05% 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  
Date: 8/6/2015  
E-mail Address: spresley@naguss.com

Printed Name: Sarah Presley

Title: Regulatory Analyst

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