

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: 30-025-41186				
		2. Well Name: RAPTOR WEST 3 STATE #002H				
		3. Well Number: 002H				
HYDRAULIC FRACTURING FLUID DISCLOSURE ☒ Original ☐ Amendment		4. Surface Hole Location: Unit:P Lot:P Section:3 Township:19S Range:34E Feet from:330 N/S Line:S Feet from:950 E/W Line:E				
		5. Bottom Hole Location: Unit:A Lot:A Section:3 Township:19S Range:34E Feet from:297 N/S Line:N Feet from:957 E/W Line:E				
		6. latitude: 32.6830058376129 longitude: -103.542732099908				
		7. County: Lea				
8. Operator Name and Address: NADEL AND GUSSMAN PERMAN, LLC 601 N MARIENFELD SUITE 508 MIDLAND 79701		9. OGRID: 155615	10. Phone Number:			
11. Last Fracture Date: 8/2/2014 Frac Performed by: Cudd Energy Services		12. Production Type: O				
13. Pool Code(s): 55610		14. Gross Fractured Interval: 10,319 ft to 14,363 ft				
15. True Vertical Depth (TVD): 9,916 ft		16. Total Volume of Fluid Pumped: 2,557,170 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	OPERATOR	BASE CARRIER FLUID	WATER	7732-18-5	100%	83.3504%
SAND	MULTIPLE SUPPLIERS	PROPPANTS	SILICON DIOXIDE	14808-60-7	100%	10.20859%
OILPLUS 20/40	MOMENTIVE SPECIALTY CHEMICALS, INC.	PROPPANTS	QUARTZ (SIO2)	14808-60-7	100%	3.41486%
15% HYDROCHLORIC ACID	REAGENT	SCALE DISSOLVER	WATER	7732-18-5	85%	1.82741%
			36% HYDROCHLORIC ACID	7647-01-0	15%	0.32248%
SG-15G	PIP TECHNOLOGY	GELLING AGENTS	PETROLEUM DISTILLATE (MINERAL OIL)	64742-47-8	55%	0.25928%
			GUAR GUM	9000-30-0	50%	0.23571%
			SURFACTANT	68439-51-0	2%	0.00943%
			BENTONITE CLAY	14808-60-7	2%	0.00943%
XL-335	ASK	CROSSLINKERS	POTASSIUM HYDROXIDE	1310-58-3	25%	0.03721%
			PROPRIETARY	PROPRIETARY	25%	0.03721%
			ETHYLENE GLYCOL	107-21-1	25%	0.03721%
			PROPRIETARY	PROPRIETARY	15%	0.02232%
			PROPRIETARY	PROPRIETARY	10%	0.01488%
			StimOil FBA M	CESI CHEMICAL	SURFACTANTS	ISOPROPANOL
CS-135	CHEMPLEX	CLAY CONTROL / STABILIZERS	CITRUS TERPENES	94266-47-4	30%	0.03057%
			POLYCATIONIC ORGANIC POLYMER	PROPRIETARY	50%	0.04717%
AcTivator TV3158/2.5M#	MOMENTIVE SPECIALTY CHEMICALS, INC.	SURFACTANTS	WATER	7732-18-5	0.5%	0.00047%
			ALCOHOLS, C-12- 14-SECONDARY, ETHOXYLATED	84133-50-6	70%	0.01217%
			METHANOL	67-56-1	50%	0.00869%
FR-620	CHEMPLEX	FRICTION REDUCERS	POLYETHYLENE GLYCOL	25322-68-3	5%	0.00087%
			CATIONIC POLYACRYLAMIDE COPOLYER	PROPRIETARY	35%	0.00416%
			WATER	7732-18-5	35%	0.00416%
			PETROLEUM DISTILLATE	64742-47-8	30%	0.00357%
			ALCOHOL ETHOXYLATE SURFACTANTS	PROPRIETARY	8%	0.00095%
			SODIUM CHLORIDE	7647-14-5	2%	0.00024%
FE-4	CHEMPLEX, L.C.	IRON CONTROLLER / REDUCERS	CITRIC ACID	77-92-9	55%	0.00651%
GB-150	CHEMPLEX, L.C.	GEL BREAKERS / DELAYED BREAKERS	ANHYDROUS	7732-18-5	55%	0.00651%
			WATER	7732-18-5	90%	0.00633%
			SODIUM CHLORIDE	7647-14-5	15%	0.00105%
			MANNANASE ENZYMES	PROPRIETARY	2%	0.00014%
EGB-16HT	CESI CHEMICAL	GEL BREAKERS / DELAYED BREAKERS	AMMONIUM PERSULFATE	7727-54-0	100%	0.00624%
			SILICA, CRYSTALLINE- QUARTZ	14808-60-7	15%	0.00094%
I-122	CHEMPLEX, L.C.	ACID CORROSION INHIBITORS	METHANOL	67-56-1	70%	0.00241%
			THIOUREA- FORMALDEHYDE COPOLYMER	68527-49-1	30%	0.00103%
			ALCOHOL ETHOXYLATE SURFACTANTS	PROPRIETARY	30%	0.00103%
			N-OLEFINS	PROPRIETARY	10%	0.00034%
			PROPARGYL ALCOHOL	107-19-7	8%	0.00028%
			NE-227	CESI	NON AND DE- EMULSIFIERS	ETHOXYLATED NONYLPHENOL
			ISOPROPANOL	67-63-0	15%	0.00029%
			METHANOL	67-56-1	15%	0.00029%
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: Sarah Presley Title: Regulatory Analyst						
Date: 10/21/2014						
E-mail Address: spresley@naguss.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.						