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.
30-025-41361

2. Well Name:
GRAMMA 27 STATE #001H

3. Well Number:
001H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:O Lot:O Section:27 Township:21S Range:34E
Feet from:330 N/S Line:S
Feet from:1980 E/W Line:E

5. Bottom Hole Location:
Unit:O Lot:O Section:27 Township:21S Range:34E
Feet from:330 N/S Line:S
Feet from:1980 E/W Line:E

6. latitude: 32.4435308759758 longitude: -103.455589081116

7. County:
Lea

8. Operator Name and Address:
CAZA OPERATING, LLC
200 N LORAINE
STE 1550
MIDLAND 79701

9. OGRID: 249099

10. Phone Number: 432-682-7424

11. Last Fracture Date: 5/12/2014 Frac Performed by: Nabors Completion & Production Services

12. Production Type:
O

13. Pool Code(s):
28435

14. Gross Fractured Interval:
11,351 ft to 15,372 ft

15. True Vertical Depth (TVD):
11,192 ft

16. Total Volume of Fluid Pumped:
2,664,354 gals

17. Total Volume of Re-Use Water Pumped:
0 gals

18. Percent of Re-Use Water in Fluid Pumped:
%

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)
HCL Acid (12.5% - 18.0%)	Nabors Completion & Production Ser	Bulk Acid	Hydrogen Chloride Solution	7647-01-0	31.45%	0.010222%
			water	7732-18-5	100%	0.03186%
Acid Inhibitor 3M (AI-3M)	Nabors Completion & Production Ser	Acid Corrosion Inhibitors	1-DECANOL	112-30-1	5%	0.000109%
			1-OCTANOL	111-87-5	2.5%	5.5E-05%
			2-Butoxyethanol	111-76-2	7%	0.000153%
			Cinnamaldehyde	104-55-2	6%	0.000131%
			Ethoxylated Nonyphenol	68412-54-4	5%	0.000109%
			Ethylene Glycol	107-21-1	40%	0.000875%
			Isopropyl Alcohol	67-63-0	2.5%	5.5E-05%
			N,N-Dimethylformamide	68-12-2	20%	0.000438%
			Triethyl Phasphate	78-40-0	2.5%	5.5E-05%
KR-153SL	Nabors Completion & Production Ser	Biocides	2,2-dibromo-3-nitrilopropionamide	10222-01-2	20%	0.001237%
			polyethlyene-Glycol	25322-68-3	50%	0.003094%
ClayTreat LT	Nabors Completion & Production Ser	Clay Control Additives	Water	7732-18-5	65%	0.017237%
XL-11	Nabors Completion & Production Ser	Cross-Linkers	Ethylene Glycol	107-21-1	10%	0.003453%
			Potassium Hydroxide	1310-58-3	5%	0.001726%
			Potassium Metaborate	13709-94-9	30%	0.010359%
			Water	7732-18-5	75%	0.025896%
OB-2	Nabors Completion & Production Ser	Gel Breaker	Amonium Persulfate	7727-54-0	100%	0.001653%
			Sillica,crystalline quartz	7631-86-9	10%	0.000165%
EXP-F0829-13	Nabors Completion & Production Ser	Gel Breakers	Hemicellulase Enzyme	Proprietary	1%	1.6E-05%
LSG-100	Nabors Completion & Production Ser	Gelling Agents	Guar Gum	9000-30-0	50%	0.050947%
			Petroleum Distillates	64742-47-8	60%	0.061137%
			Surfactant	68439-51-0	2%	0.002038%
IC-500	Nabors Completion & Production Ser	Iron Control Additives	2-Mercaptoethanol or Thioglycol	60-24-2	75%	0.001265%
			Aqua Ammonia	1336-21-6	5%	8.4E-05%
			Cupric Chloride	10125-13-0	7%	0.000118%
Super Green Solvent	Nabors Completion & Production Ser	Paraffin & Scale Additives	BTEX Free Aliphatic Hydrocarbon	64742-96-7	100%	0.002554%
Super TSC-LTS	Nabors Completion & Production Ser	Paraffin & Scale Additives	Water	7732-18-5	60%	0.003187%
Super OW 3	Nabors Completion & Production Ser	Sufactants & Foamers	Dimethylococoamine,bis (chloroethyl) ether, diquaternary ammonium salt	68607-28-3	60%	0.000279%
			Isopropyl Alcohol	67-63-0	60%	0.000279%
			Methanol	67-56-1	30%	0.00014%
Super-Flo RPM	Nabors Completion & Production Ser	Surfactants & Foamers	D-Limonene	5989-27-5	20%	0.004713%
			Isopropanol	67-63-0	20%	0.004713%
			N-Methyl Pyrrolidone	872-50-4	30%	0.007069%
			Proprietary	Proprietary	20%	0.004713%
			Proprietary	Proprietary	40%	0.009425%
Carbo Ceramics Carbolite 30/50	Nabors Completion & Production Ser	Proppants	Mullite	1302-93-8	85%	0.312524%
			Silica Crystalline-Cristobalite	14464-46-1	20%	0.073535%
			Silicon Dioxide	7631-86-9	35%	0.128686%
IMERYS EL-Prop 20/40	Nabors Completion & Production Ser	Proppant	Amorphous silica (as glass)	7631-86-9	35%	26.028595%
			Cristobalite	14464-46-1	5%	3.718371%
			Mullite	1302-93-8	60%	44.620449%
Water	Caza Operating, LLC	Water	water	7732-18-5	100%	24.9923714%

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: Richard Wright Title:

Date: 5/23/2014

E-mail Address: rwright@cazapetro.com

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