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.
30-005-64188

2. Well Name:
VICTORIA FEDERAL #004

3. Well Number:
004

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:G Lot:G Section:30 Township:15S Range:29E
Feet from:2310 N/S Line:N
Feet from:2310 E/W Line:E

5. Bottom Hole Location:
Unit:G Lot:G Section:30 Township:15S Range:29E
Feet from:2310 N/S Line:N
Feet from:2310 E/W Line:E

6. latitude: 32.9878102126889 longitude: -104.066788211966

7. County:
Chaves

8. Operator Name and Address:
MACK ENERGY CORP
PO Box 960
11344 Lovington Hwy
Artesia 88211

9. OGRID: 13837

10. Phone Number: 575-748-1288

11. Last Fracture Date: 9/13/2014 Frac Performed by: Elite Well Services

12. Production Type:
O

13. Pool Code(s):
52770

14. Gross Fractured Interval:
2,986 ft to 3,202 ft

15. True Vertical Depth (TVD):
3,097 ft

16. Total Volume of Fluid Pumped:
475,314 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	Customer	Carrier/ Base Fluid	Water	7732-18-5	100%	95.76382%
Sand (Proppant)	US Silica	Proppant	Silica Substrate	14808-60-7	100%	3.58381%
RCS (Proppant)	Momentive	Proppant	Silica Substrate	14808-60-7	100%	0%
Hydrochloric Acid	CNR	Acidizing	Hydrochloric Acid	7647-01-0	38.8%	0.12664%
Claymax	Chemplex	Clay Stabilizer	Choline Choride	67-48-1	62%	0%
4-N1 Plus	Chemplex	Iron Control Corr Inhib	Acetic Acid	64-19-7	80%	0.00197%
			Methanol	67-56-1	10%	0.00025%
Plexcide 24L	Chemplex	Biocide	Tetrahydro - 3 Dimethyl 2H	533-74-4	24%	0.00644%
Plexset 730	Chemplex	Activator	Secondary Alcohol Ethoxylate	84133-50-3	50%	0%
Plexsurf 240 E	Chemplex	Surfactant	Methyl Alcohol	67-56-1	10%	0.00923%
			Alcohol Alkoxylate	Proprietary	50%	0.04614%
Plexslick 957	Chemplex	Friction Reducer	Alcohol Ethoxylate Surfactants	Proprietary	8%	0.01444%
			Hydrotreated Petroleum Distallate	64742-47-8	30%	0.05416%
			Polyacrylamide-CO-Acytic Acid	9003-06-9	31%	0.05596%
AMA 398	Chemplex	Biocide	Tetrahydro-3 Dimethyl 2H	533-74-4	98%	0%
Plexgel 907 LE	Chemplex	Polymer	Guar Gum	9000-30-0	50%	0%
			Mineral Oil	64742-47-8	55%	0%
			Bentonite Clay	14808-60-7	2%	0%
			Surfactant	68439-51-0	2%	0%
Plexbor 101	Chemplex	Crosslinker	Ethylene Glycol	107-21-1	9.99%	0%
			Potassium Metaborate	13709-94-9	30%	0%
			Potassium Hydroxide	1310-58-3	5%	0%
Plexgel Breaker 10L	Chemplex	Gel Breaker	Mannanase Enzymes	Proprietary	2%	0%
			Sodium Chloride	7647-14-5	15%	0%
Sodium Persulfate	Chemplex	Gel Breaker	Sodium Persulfate	7775-27-1	98%	0%
Buffer 11	Chemplex	PH Control	Potassium Hydroxide	1310-58-3	23%	0%
Greenhib 679	Chemplex	Scale Inhibitor	Glycerine	56-81-5	35%	0.00835%
			Proprietary	Proprietary	35%	0.00835%
			Water	7732-18-5	30%	0.00716%
Scalesorb3	Baker Hughes	Scale Inhibitor	Diatomaceous Earth Calcined	91053-39-3	69%	0%
			Amino Alkyl Phosphonic Acid	Proprietary	30%	0%
			Phosphonic Acid	13598-36-2	1%	0%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	0%
Plexgel Breaker XPA	Chemplex, LC	Gel Breaker	Hydrogen Peroxide	7722-84-1	7%	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 Printed Name: Deana Weaver Title: Production Clerk

Date: 9/15/2014

E-mail Address: deanap@mackenergycorp.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.