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.
30-015-41428

2. Well Name:
STATE GQ #005H

3. Well Number:
005H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:B Lot:B Section:7 Township:25S Range:28E
Feet from:200 N/S Line:N
Feet from:1775 E/W Line:E

5. Bottom Hole Location:
Unit:B Lot:B Section:7 Township:25S Range:28E
Feet from:200 N/S Line:N
Feet from:1775 E/W Line:E

6. latitude: 32.1513757978969 longitude: -104.124130678219

7. County:
Eddy

8. Operator Name and Address:
LEGEND NATURAL GAS III LIMITED PARTNERSHIP
15021 Katy Freeway
Suite 200
Houston 77094

9. OGRID: 258894

10. Phone Number: 281-644-5900

11. Last Fracture Date: 8/30/2013 Frac Performed by: Sanjel

12. Production Type:
O

13. Pool Code(s):
30216

14. Gross Fractured Interval:
Confidential

15. True Vertical Depth (TVD):
7,966 ft

16. Total Volume of Fluid Pumped:
2,723,150 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)
Base Fluid	Operator	Base Fluid	Water, other	7732-18-5	100%	85.84097%
Silica Sand	Sanjel	Proppant	Crystalline Silica, SiO2	14808-60-7	99.9%	11.61548%
1% Breaker O	Sanjel	Break Fluid	Ammoniun persulfate	7727-54-0	1%	0.00064%
7.5% HCl	Sanjel	Acid	Hydrogen Chloride Anhydrous	7647-01-0	40%	0.73119%
			Water	7732-18-5	95%	1.73657%
AI-7	Sanjel	Acid Inhibitor	Isopropanol	67-63-0	100%	0.00302%
			Polyoxyalkylenes	Proprietary	0%	0%
			Fatty acids	Proprietary	0%	0%
			Modified thiorea polymer	Proprietary	0%	0%
			Propargyl alcohol	107-19-7	5%	0.00015%
AQUCAR DB 20	Dow	Biocide	Polyethylene glycol	25322-68-3	54.5%	0.00767%
			2,2-Dibromo-3-nitrilopropionamide	10222-01-2	20%	0.00281%
			Dibromoacetonitrile	3252-43-5	3%	0.00042%
			Sodium bromide	7647-15-6	4%	0.00056%
BX-6L	Sanjel	Borate Crosslinker	Ethylene Glycol	107-21-1	30%	0.03799%
			Boric Acid, sodium salt	13840-56-7	10%	0.01266%
			Sodium Hydroxide	1310-73-2	5%	0.00633%
FRW-3	Sanjel	Friction reducer	Isoparaffinic Solvent	64742-47-8	40%	0.00703%
			Surfactant	68131-40-8	5%	0.00088%
LDP-F-0911	Sanjel	High pH Buffer	Sodium Hydroxide	1310-73-2	5%	0.00016%
NE-6	Sanjel	Non-emulsifier	Isopropal Alcohol	67-63-0	60%	0.04865%
			2-Ethylhexanol	104-76-7	5%	0.00405%
			Diethylenetriamine	111-40-0	5%	0.00405%
			Heavy Aromatic Solvent Naphtha	64742-94-5	5%	0.00405%
			Napthalene	91-20-3	1%	0.00081%
			Benzene 1-1-oxybis-, tetrapropylene	119345-03-8	10%	0.00811%
			Diethylenetriamine Alkylbenzene Sulfate	40139-72-8	30%	0.02432%
SCC-1L	Sanjel	Clay Control	No hazardous ingredients	NA	100%	0.04868%
SCC-3L	Sanjel	Clay Control	Quaternary Compound	138879-94-4	60%	0.02534%
SI-16S	Sanjel	Scale Inhibitor	No hazardous ingredients	NA	100%	0.00807%
WG-2BL	Sanjel	Gellant	No hazardous ingredients	NA	100%	0.2955%

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: Jennifer M Mosley Title: Regulatory Analyst

Date: 11/19/2013

E-mail Address: jmosley@lng2.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.