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.
30-015-41597

2. Well Name:
OSAGE 34 FEDERAL #006H

3. Well Number:
006H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☐ **Original**

☒ **Amends disclosure submitted on 1/23/2014**

4. Surface Hole Location:
Unit:I Lot:I Section:34 Township:19S Range:29E
Feet from:1700 N/S Line:S
Feet from:35 E/W Line:E

5. Bottom Hole Location:
Unit:I Lot: Section:34 Township:19S Range:29E
Feet from:1645 N/S Line:S
Feet from:331 E/W Line:W

6. latitude: 32.6145451809454 longitude: -104.054283503918

7. County:
Eddy

8. Operator Name and Address:
SM ENERGY COMPANY
3300 N. A Street, Bldg. #7
Suite 200
Midland 79705

9. OGRID: 154903

10. Phone Number: 432-688-1789

11. Last Fracture Date: 11/18/2013 Frac Performed by: SANJEL USA INC

12. Production Type:
O

13. Pool Code(s):
49622

14. Gross Fractured Interval:
7,739 ft to 11,782 ft

15. True Vertical Depth (TVD):
7,132 ft

16. Total Volume of Fluid Pumped:
1,472,478 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%	84.34184%
InnoProp PR	US Silica	Proppant	Crystalline Silica (quartz)	14808-60-7	98%	1.94838%
			Phenol-formaldehyde polymer	9003-35-4	5%	0.09941%
			Phenol	108-95-2	0.2%	0.00398%
			Formaldehyde	50-00-0	0.01%	0.0002%
Silica Sand	Sanjel	Proppant	Crystalline Silica, SiO2	14808-60-7	99.9%	12.77399%
5% Breaker O	Sanjel	Break Fluid	Ammoniun persulfate	7727-54-0	5%	0.00661%
AQUCAR DB 20	Dow	Biocide	Polyethylene glycol	25322-68-3	54.5%	0.01018%
			2,2-Dibromo-3-nitrilopropionamide	10222-01-2	20%	0.00374%
			Dibromoacetonitrile	3252-43-5	3%	0.00056%
			Sodium bromide	7647-15-6	4%	0.00075%
LDP-F-0413	Sanjel	Crosslinker	Boric Acid, sodium salt	1333-73-9	30%	0.05024%
NE-6	Sanjel	Non-emulsifier	Isopropal Alcohol	67-63-0	60%	0.05312%
			2-Ethylhexanol	104-76-7	5%	0.00443%
			Diethylenetriamine	111-40-0	5%	0.00443%
			Heavy Aromatic Solvent Naphtha	64742-94-5	5%	0.00443%
			Napthalene	91-20-3	1%	0.00089%
			Benzene 1-1-oxybis-, tetrapropylene	119345-03-8	10%	0.00885%
			Diethylenetriamine Alkylbenzene Sulfate	40139-72-8	30%	0.02656%
SCC-1L	Sanjel	Clay Control	No hazardous ingredients	NA	100%	0.04732%
SI-14W	Sanjel	Scale Inhibitor	Phosphoric Acid	NA	40%	0.0067%
			Methanol	67-56-1	30%	0.00502%
Superset W	Santrol	Activator	Methanol	67-56-1	50%	0.02035%
			Poly(oxyethylene) nonylphenol ether	9016-45-9	50%	0.02035%
WG-2BL	Sanjel	Gellant	No hazardous ingredients	NA	100%	0.37165%

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: Vickie Martinez Title: Engineering Tech

Date: 1/23/2014

E-mail Address: vmartinez@sm-energy.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.