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.: 30-015-43985

2. Well Name: JAWBONE STATE COM #003H

3. Well Number: 003H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:C Lot:3 Section:2 Township:25S Range:26E
Feet from:200 N/S Line:N
Feet from:1895 E/W Line:W

5. Bottom Hole Location:
Unit:N Lot:14 Section:2 Township:25S Range:26E
Feet from:314 N/S Line:S
Feet from:1898 E/W Line:W

6. latitude: 32.165892 longitude: -104.266128

7. County: Eddy

8. Operator Name and Address:
MURCHISON OIL & GAS INC
Legacy Tower One
7250 Dallas Pkwy, Ste 1400
Plano 75024

9. OGRID: 15363

10. Phone Number: 972-931-0700

11. Last Fracture Date: 5/7/2017 Frac Performed by: Cudd Energy Services

12. Production Type: O

13. Pool Code(s): 97494

14. Gross Fractured Interval: Confidential

15. True Vertical Depth (TVD): 7,142 ft

16. Total Volume of Fluid Pumped: 5,729,625 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		Carrier / Base Fluid		7732-18-5	100%	86.46903%
Sand		Proppant	Silicon Dioxide	14808-60-7	100%	12.6177%
B-15	Brenntag	Biocide	Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	20%	0.00196%
			Water	7732-18-5	80%	0.00786%
FR-601	SNF	Friction Reducer	Copolymer of acrylamide and sodium acrylate	25987-30-8	10%	0.00305%
			Isoparaffinic Solvent	64742-47-8	10%	0.00305%
			Water	7732-18-5	60%	0.01828%
			Nonylphenol	9016-45-9	10%	0.00305%
			Sorbitan Monooleate	1338-43-8	10%	0.00305%
15% Hydrochloric Acid	Reagent	Scale Dissolver	37% Hydrochloric Acid	7647-01-0	15%	0.08273%
			Water	7732-18-5	85%	0.46881%
SG-15G	Multiple Suppliers	Polymer	Guar Gum	9000-30-0	50%	0.1106%
			Petroleum Distillate (Mineral Oil)	64742-47-8	55%	0.12166%
			Bentonite Clay	14808-60-7	2%	0.00442%
			Surfactant	68439-51-0	2%	0.00442%
XL-335	PfP Technology	Crosslinker	Sodium Metaborate	7775-19-1	40%	0.0199%
			Glycerol	56-81-5	45%	0.02239%
EGB-16LT	Fritz Industries, Inc.	Breaker	Ammonium Persulfate	7727-54-0	99.9%	0.00157%
			Silica, Crystalline-Quartz	14808-60-7	10%	0.00016%
FE-4	Multiple Suppliers	Iron Control Additive	Citric Acid Anhydrous	77-92-9	55%	0.00167%
			Water	7732-18-5	55%	0.00167%
NE-227	Ace Completions	Non-emulsifier	Proprietary	NA	15%	0.00672%
			Poly (oxy-1,2-ethanediyl), alpha hexyl-omega-hydroxy-	31726-34-8	5%	0.00224%
			Isotridecanol, ethoxylated	9043-30-5	5%	0.00224%
			Alcohol	68609-68-7	5%	0.00224%
			Solvent Naptha (Petroleum), Heavy Aromatic	64742-94-5	1%	0.00045%
			Water	7732-18-5	90%	0.0403%
I-123	Finoric	Corrosion Inhibitor	Ethylene Glycol	107-21-1	40%	0.00043%
			N,N-Dimethylformamide	68-12-2	20%	0.00022%
			1-Decanol	112-30-1	10%	0.00011%
			2-Butoxyethanol	111-76-2	10%	0.00011%
			Cinnamaldehyde	104-55-2	10%	0.00011%
			Ethoxylated Nonylphenol	68412-54-4	10%	0.00011%
			Tar based, quinoline derived, benzyl chloride-quaternized	72480-70-7	10%	0.00011%
			1-Octanol	111-87-5	2.5%	3E-05%
			Isopropyl Alcohol	67-63-0	2.5%	3E-05%
			Triethyl Phosphate	78-40-0	2.5%	3E-05%

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: Cindy Cottrell Title: Regulatory Coordinator

Date: 5/17/2017

E-mail Address: ccottrell@jdmii.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.