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. 30-015-39769
2. Well Name: HOLIDAY #001H
3. Well Number: 001H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:D Lot:D Section:1 Township:20S Range:25E
Feet from:330 N/S Line:N
Feet from:380 E/W Line:W

5. Bottom Hole Location:
Unit:D Lot: Section:1 Township:20S Range:25E
Feet from:330 N/S Line:N
Feet from:380 E/W Line:W

6. latitude: 32.6088294764071 longitude: -104.445671003518

7. County: Eddy

8. Operator Name and Address:
MARSHALL & WINSTON INC
PO BOX 50880
MIDLAND 79710

9. OGRID: 14187

10. Phone Number:

11. Last Fracture Date: 6/4/2012 Frac Performed by: Baker Hughes

12. Production Type: O

13. Pool Code(s): 97565

14. Gross Fractured Interval: 3,320 ft to 7,150 ft

15. True Vertical Depth (TVD): 2,773 ft

16. Total Volume of Fluid Pumped: 754,194 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	Operator	Carrier	Water	7732-18-5	100%	87.88372%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.40533%
			Water	7732-18-5	85%	2.29686%
X-Cide 207	Baker Hughes	Biocide	2-Methyl-4-Isothiazolin-3-One	2682-20-4	5%	3E-05%
			5-Chloro-2-Methyl-4-Isothiazolin-3-One	26172-55-4	10%	7E-05%
			Crystalline Silica: Cristobalite	14464-46-1	1%	1E-05%
			Crystalline Silica: Quartz (SiO2)	14808-60-7	1%	1E-05%
			Diatomaceous Earth, Calcined	91053-39-3	60%	0.0004%
			Magnesium Chloride	7786-30-3	5%	3E-05%
			Magnesium Nitrate	10377-60-3	10%	7E-05%
Alpha 125	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	30%	0.00712%
GBW-5	Baker Hughes	Breaker	Ammonium Persulfate	7727-54-0	100%	0.0028%
ClayCare, tote	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.03652%
			Water	7732-18-5	30%	0.01461%
Clay Master-5C	Baker Hughes	Clay Control	Oxyakylated Amine Quat	138879-94-4	60%	0.02994%
CI-14	Baker Hughes	Corrosion Inhibitor	Fatty Acids	61790-12-3	10%	0.0002%
			Methanol	67-56-1	100%	0.00203%
			Olefin	64743-02-8	5%	0.0001%
			Polyoxyalkylenes	68951-67-7	30%	0.00061%
			Progargyl	107-19-7	5%	0.0001%
XLW-10A	Baker Hughes	Crosslinker	Ethylene Glycol	107-21-1	30%	0.0239%
			Sodium Hydroxide	1310-73-2	10%	0.00797%
			Sodium Tetraborate	1330-43-4	30%	0.0239%
FRW-14 (Small Tote)	Basker Hughes	Friction Reducer	No Hazardous Ingredients	N.A.	100%	0.00252%
GW-4LDF	Baker Hughes	Gelling Agent	Guar Gum	9000-30-0	40%	0.13903%
			Petroleum Distillates Blend	Trade Secret	70%	0.2433%
Ferrotrol 280L	Baker Hughes	Iron Control	2-Mercaptoethanol	60-24-2	100%	0.01283%
			Ammonium Hydroxide	1336-21-6	5%	0.00064%
			Cupric Chloride	7447-39-4	5%	0.00064%
NE-945, tote	Baker Hughes	Non-emulsifier	Oxyalkylated alcohol	Trade Secret	5%	0.00012%
Sand, White, 20/40	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	8.55928%
ES-4A, Greenskeeper Solvent	Baker Hughes	Solvent	Petroleum Distillates Blend	Trade Secret	100%	0.02964%
Flo-Back 40	Baker Hughes	Surfactant	Amphoteric Surfactant	Trade Secret	40%	0.02827%
InFlo 250G, 330 gl tote	Baker Hughes	Surfactant	Methanol	67-56-1	30%	0.00881%
			Mixture of Sufactants	Trade Secret	50%	0.01468%
			Water	7732-18-5	30%	0.00881%
			Alcohols, C12-14, Ethoxylated Proposylated	68439-51-0	0%	0.0173787%
			Aliphatic Hydrocarbon	Trade Secret	0%	0.0005861%
			Alkoxylated Amine	Trade Secret	0%	0.0002377%
			alkylene Oxide Block Polymer	Trade Secret	0%	0.000271%
			Antifoam	Trade Secret	0%	5E-07%
			Crystalline Silica, Quartz	14808-60-7	0%	0.0173787%
			Formaldehyde	50-00-0	0%	0%
			Hydrochloric Acid	7647-01-0	0%	0%
			Isotridecanol, Ethoxylated (TDA-6)	9043-30-5	0%	0.0173787%
			Isotridecanol, Ethoxylated (TDA-9)	9043-30-5	0%	0.0173787%
			Methanol	67-56-1	0%	5.94E-05%
			Modified Thiourea Polymer	68527-49-1	0%	0%
			Organic Sulfonic Acid	27176-87-0	0%	4.8E-06%
			Oxyalkylated Alcohol	Trade Secret	0%	4.53E-05%
			Polyglycol	25322-68-3	0%	4.52E-05%
			Polyglycol Ester	Trade Secret	0%	2.01E-05%
			Polyol Ester	Trade Secret	0%	2.77E-05%
			Polyquaternary Amine	Trade Secret	0%	2.85E-05%
			Quaternary Ammonium Compounds, bis [Hydrogenated Tallow Alkyl], Dimethyl Salts With Bentonite	68953-58-2	0%	0.0173787%
			Sodium Chloride	7647-14-5	0%	0.0213008%
			Vinyl Copolymer	Trade Secret	0%	0.0006943%
			Water	7732-18-5	0%	0.1048771%

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: Sherry Roberts Title: Operations Secretary

Date: 6/18/2014

E-mail Address: sroberts@mar-win.com

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