

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:
30-025-41428

2. Well Name:
JAGUAR 18 STATE #002H

3. Well Number:
002H

HYDRAULIC FRACTURING FLUID DISCLOSURE

☒ Original

☐ Amendment

4. Surface Hole Location:
Unit:N Lot:N Section: 18 Township:23S Range:33E
Feet from:330 N/S Line:S
Feet from:1980 E/W Line:W

5. Bottom Hole Location:
Unit:N Lot:N Section: 18 Township:23S Range:33E
Feet from:330 N/S Line:S
Feet from:1980 E/W Line:W

6. latitude: longitude:
32.2984205291497 -103.613329478424

7. County:
Lea

8. Operator Name and Address:
ENDURANCE RESOURCES LLC
15455 Dallas Parkway
Suite 600
Addison 75234

9. OGRID:
270329

10. Phone Number:
972-764-3131

11. Last Fracture Date: 12/27/2014 Frac Performed by: Baker Hughes

12. Production Type:
O

13. Pool Code(s):
14985

14. Gross Fractured Interval:
12,580 ft to 16,356 ft

15. True Vertical Depth (TVD):
12,177 ft

16. Total Volume of Fluid Pumped:
3,959,227 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%	83.94933%
HCl, 10.1 - 15%	Baker Hughes	Acidizing	Hydrochloric Acid	7647-01-0	15%	0.18539%
Alpha 1427	Baker Hughes	Biocide	Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	0.00238%
			Ethanol	64-17-5	5%	0.00119%
			Glutaraldehyde	111-30-8	30%	0.00714%
			Quaternary Ammonium Compound	68424-85-1	5%	0.00119%
High Perm CRB	Baker Hughes	Breaker	Ammonium Persulphate	7727-54-0	100%	0.01005%
BF-3L, 300 gal tote	Baker Hughes	Buffer	Potassium Carbonate	584-08-7	60%	0.06372%
			Potassium Hydroxide	1310-58-3	30%	0.03186%
Clay Master-5C (Tote)	Baker Hughes	Clay Control	Oxyalkylated Amine Quat	Trade Secret	60%	0.01156%
Ferrotrol 280L , 330 gi tote	Baker Hughes	Clay Control	2-Mercaptoethanol	60-24-2	100%	0.00378%
			Ammonium Hydroxide	1336-21-6	5%	0.00019%
			Cupric Chloride	7447-39-4	5%	0.00019%
ClayCare	Baker Hughes	Clay Control	Choline Chloride	67-48-1	75%	0.06813%
			Water	7732-18-5	30%	0.02725%
Cl-27	Baker Hughes	Corrosion Inhibitor	Fatty Acids	Trade Secret	30%	0.00061%
			Methanol	67-56-1	60%	0.00121%
			Olefin	Trade Secret	5%	0.0001%
			Polyoxyalkylenes	Trade Secret	30%	0.00061%
			Propargyl Alcohol	107-19-7	10%	0.0002%
			Thiourea Polymer	68527-49-1	30%	0.00061%
XLW-30G, tote	Baker Hughes	Crosslinker	2-methyl-4-isothiazolin-3-one	Trade Secret	0%	0%
			5-Chloro-2-methyl-3 (2H)-Isothiazolone	Trade Secret	0%	0%
			Acrylamide-acrylic acid copolymer, sulfomethylated,	Trade Secret	1%	0.00076%
			Cellulose	Trade Secret	2%	0.00151%
			Clay	Trade Secret	3%	0.00227%
			Crystalline Silica	14808-60-7	1%	0.00076%
			Quartz			
			Magnesium chloride	Trade Secret	0%	0%
			Magnesium nitrate	Trade Secret	0%	0%
			Potassium Formate	Trade Secret	30%	0.02272%
			Sodium bisulfate	Trade Secret	1%	0.00076%
			Sodium chloride	Trade Secret	1%	0.00076%
			Sodium formaldehyde bisulfate	Trade Secret	1%	0.00076%
			Sodium glycolate	Trade Secret	1%	0.00076%
			Ulexite Mineral	Trade Secret	40%	0.0303%
			Water	Trade Secret	60%	0.04545%
XLW-4	Baker Hughes	Crosslinker	Sodium Tetraborate	1303-96-4	30%	0.00854%
FRW-18	Baker Hughes	Friction Reducer	Hydrotreated Light Distillate	64742-47-8	30%	0.00132%
GW-4	Baker Hughes	Gelling Agent	Gum Gum	9000-30-0	100%	0.21716%
Sand, White, 30/50	Baker Hughes	Proppant	Crystalline Silica (Quartz)	14808-60-7	100%	0.12715%
Econoprop 40/70	Baker Hughes	Proppant	Cristobalite	14464-46-1	10%	0.48636%
			Silica	7631-86-9	30%	1.45908%
CarboHydroprop, 40/80	Baker Hughes	Proppant	Mullite	1302-93-8	85%	1.76399%
			Silica Crystalline-Cristobalite	14464-46-1	30%	0.62259%
			Silicon Dioxide, amorphous as glass	7631-86-9	10%	0.20753%
Carboilite, 30/50	Baker Hughes	Proppant	Mullite	1302-93-8	85%	2.92403%
			Silica Crystalline-Cristobalite	14464-46-1	20%	0.68801%
			Silicon Dioxide, amorphous as glass	7631-86-9	35%	1.20401%
Scaletrol 720, 330 gi tote	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5%	0.00129%
			Ethylene Glycol	107-21-1	45%	0.01169%
S-200	Baker Hughes	Surfactant	Ethanol	64-17-5	10%	0.0001%
Ingredients shown above are subject to 29 CFR 1910			2-Propenol; Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9	0%	0.0051574%
			Alcohols, C10-16, ethoxylated propoxylated	Trade Secret	0%	5.04E-05%
			Alcohols, C12-16, ethoxylated	Trade Secret	0%	8.77E-05%
			Alcohols, C6-12 ethoxylated propoxylated	Trade Secret	0%	5.04E-05%
			Alcohols, ethoxylated	Trade Secret	0%	4.03E-05%
			Amines, unsatd. alkyl, ethoxylated	Trade Secret	0%	2.01E-05%
			Ammonium Chloride	12125-02-9	0%	0.0001315%
			Formaldehyde	50-00-0	0%	1E-06%
			Glycerin	Trade Secret	0%	0.0071164%
			Hydrated Magnesium Silicate	Trade Secret	0%	0.0001005%
			Mullite	1302-76-7	0%	3.4045117%
			Oleamide DEA	93-83-4	0%	8.77E-05%
			Poly (Tetrafluoroethylene)	Trade Secret	0%	5.02E-05%
			Poly (acrylamide-co-acrylic acid) partial sodium salt	Trade Secret	0%	0.0013151%
			Polyoxyethylene Sorbitan Monooleate	9005-65-6	0%	2.19E-05%
			Potassium Chloride	7447-40-7	0%	0.0002579%
			Silicon Dioxide (Crystalline)	60676-86-0	0%	1.215897%
			Sodium Chloride	7647-14-5	0%	0.000711%
				Trade Secret	0%	0.0002192%
			Sorbitan Monooleate	Trade Secret	0%	2.19E-05%
			Vinylidene Chloride-Methyl Acrylate Polymer	Trade Secret	0%	0.0025113%
			Water	7732-18-5	0%	1.1460615%

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: Peggy Redman Title: _____

Date: 2/24/2015

E-mail Address: peggy@enduranceresourcesllc.com

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