

# Hydraulic Fracturing

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### Hydraulic Fracturing Data

[Edit](#)

Job Start Date 4/16/2014	Job End Date 1/29/2015	API Number 47-051-01593-00-00	State & County West Virginia --- Marshall
Well Name GOUDY 3H			
Longitude -80.84589	Latitude 39.74996	Datum NAD27	Federal/Tribal Well? <input type="checkbox"/>
True Vertical Depth (ft) 6400	Total Water Vol (gal) 8665020	Total Non Water Vol 0	Total Mass (lbs) 74384466.1446



### MSDS Chemical Ingredients

[New Additive](#) [Select Additive](#) [Add Additive](#)

Trade Name	Supplier	Purpose	Ingredients	CAS #	% High Additive	% HF Job	Comments	Ingredient Mass
<a href="#">Edit</a> Water	Operator	Carrier	Water	7732-18-5	100%	97.0927557%		72247203.756
<a href="#">Edit</a> Sand, White, 40/70	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	1.56966%		1167590
<a href="#">Edit</a> Sand, White, 30/50	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	.535329%		398202
<a href="#">Edit</a> HCl, 10.1 - 15%	Baker Hughes	Acidizing	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	.453418%	Smart Care Product	337272.6
<a href="#">Edit</a> Sand, White, 100 mesh	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	236096%		175619

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Smart Care Product  
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236096% 175619

<a href="#">Edit</a>	FRW-18	Baker Hughes	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	.0318496%	SmartCare Product	23691.2
<a href="#">Edit</a>	GW-3LDF	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	.0251136%	SmartCare Product	18680.64
<a href="#">Edit</a>	Alpha 1427	Baker Hughes	Biocide	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	.0072344%	SmartCare Product	5381.25
<a href="#">Edit</a>	ScaleSorb 4, (50# bag)	Baker Hughes	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	.0057136%	SmartCare Product	4250
<a href="#">Edit</a>	Enzyme G-NE	Baker Hughes	Breaker	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	.0039008%	SmartCare Product	2901.5544
<a href="#">Edit</a>	Ferrotrol 300L	Baker Hughes	Iron Control	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	.0031213%	SmartCare Product	2321.74423
<a href="#">Edit</a>	CI-39	Baker Hughes	Corrosion Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A	0%	.0018181%		1352.4

## Non-MSDS Chemical Ingredients

### New Ingredients

	Trade Name	Supplier	Purpose	Ingredients	CAS #	% High Additive	% HF Job	Comments	Ingredient Mass
<a href="#">Edit</a>	Ingredients in Additive(s) (MSDS and non-MSDS)	Baker Hughes	See Trade Name(s) List						
				Crystalline Silica (Quartz)	14808-60-7	100%	2.3403331%		1741453.5
				Water	7732-18-5	95%	.4077549%		303412.480795
				Hydrochloric Acid	7647-01-0	15%	.0679889%		50590.89
				Mineral Oil	8042-47-5	70%	.0175734%		13076.448
				Guar Gum	9000-30-0	60%	.0150629%		11208.384
				Hydrotreated Light Distillate	64742-47-8	30%	.0095516%		7107.36
				Poly (acrylamide-co-acrylic acid) partial sodium salt	62649-23-4	30%	.0095516%		7107.36
				Paraffinic Petroleum Distillate	64742-55-8	30%	.0075315%		5604.192
				Petroleum Distillates	64742-47-8	30%	.0075315%		5604.192
				Diatomaceous Earth, Calcined	91053-39-3	100%	.0057116%		4250
				Glutaraldehyde	111-30-8	30%	.0021696%		1614.375
				Citric Acid	77-92-9	60%	.0018721%		1393.046538

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Sodium Chloride	7647-14-5	5%	.0015919%	1184.56
Crystalline Silica: Quartz	14808-60-7	5%	.0012552%	934.032
Isotridecanol, ethoxylated	9043-30-5	5%	.0012552%	934.032
1-butoxy-2-propanol	5131-66-8	5%	.0012552%	934.032
Ammonium Chloride	12125-02-9	3%	.0009552%	710.736
Sodium Carboxymethyl inulin	430439-54-6	15%	.0008567%	637.5
Sodium chloride	7647-14-5	15%	.0008567%	637.5
Oxyalkylated Fatty Acid	61791-002	40%	.000727%	540.96
Didecyl Dimethyl Ammonium Chloride	7173-51-5	10%	.0007232%	538.125
Alcohols, C12-16, ethoxylated	68551-12-2	2%	.0006368%	473.824
Oleamide DEA	93-83-4	2%	.0006368%	473.824
Tar Bases, Quinoline Derivs., Benzyl Chloride-Quaternized	72480-70-7	30%	.0005452%	405.72
Aldehyde	104-55-2	30%	.0005452%	405.72
Formic Acid	64-18-6	30%	.0005452%	405.72
Quaternary Ammonium Compound	68424-85-1	5%	.0004525%	336.6825
Ethanol	64-17-5	5%	.0003616%	269.0625
Sodium glycolate	2836-32-0	5%	.0002856%	212.5
Sodium diglycolate	35249-69-5	5%	.0002856%	212.5
Hemicellulase Enzyme Concentrate	9025-56-3	5%	.000195%	145.07772
Sorbitan Monooleate	1338-43-8	.5%	.0001592%	118.456
Polyoxyethylene Sorbitan Monooleate	9005-65-6	.5%	.0001592%	118.456
Isopropanol	67-63-0	5%	.0000909%	67.62
Sulfurized polyolefin	68037-13-8	5%	.0000909%	67.62
Crystalline Silica (Cristobalite)	14464-46-1	1%	.0000571%	42.5
Potassium Iodide	7681-11-0	2%	.0000363%	27.048
2-butoxy-1-propanol	15821-83-7	.1%	.0000251%	18.68064
Polyaklylene	7756-94-7	1%	.0000182%	13.524
Potassium Acetate	127-08-2	.5%	.0000091%	6.762

Goudy 3H Cement and additives

Surface: Type 1 + 2% CaCl + ¼ # per sack celloflake

Intermediate: Type 1 + 3% R-3 + 4% BA-10A + 5% SMS + ¼ per sack cello flake

Production: 50:50 Class H + .2% CD32 + 1.2% FL62 + .1% ASA301 + .4% sms

50:50 Type 1 + .4% R3 + 1% FL62 + .15% ASA301 + .3% CD32

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