

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

RECEIVED
Office of Oil and Gas

OCT 9 2024

WV Department of
Environmental Protection

API 47 - 095 - 02851 County Tyler District McElroy
Quad Shirley 7 1/2" Pad Name RPT8 Field/Pool Name _____
Farm name Jack & Jeffery Hair Well Number RPT8-5
Operator (as registered with the OOG) 24610
Address 429 Simonton Road City Ellenboro State WV Zip 26346

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4370418.54 Easting 518402.50
Landing Point of Curve Northing 4370637.45 Easting 518275.57
Bottom Hole Northing 4373314.19 Easting 517384.88

Elevation (ft) 1,247.2' GL Type of Well ☒ New ☐ Existing Type of Report ☐ Interim ☒ Final
Permit Type ☐ Deviated ☐ Horizontal ☒ Horizontal 6A ☐ Vertical Depth Type ☐ Deep ☒ Shallow
Type of Operation ☐ Convert ☐ Deepen ☒ Drill ☐ Plug Back ☐ Redrilling ☐ Rework ☒ Stimulate
Well Type ☐ Brine Disposal ☐ CBM ☒ Gas ☒ Oil ☐ Secondary Recovery ☐ Solution Mining ☐ Storage ☐ Other _____
Type of Completion ☐ Single ☒ Multiple Fluids Produced ☒ Brine ☒ Gas ☒ NGL ☒ Oil ☐ Other _____
Drilled with ☐ Cable ☒ Rotary

Drilling Media Surface hole ☒ Air ☐ Mud ☐ Fresh Water Intermediate hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine
Production hole ☐ Air ☒ Mud ☐ Fresh Water ☐ Brine

Mud Type(s) and Additive(s)

Synthetic Based Mud (SOBM), K-49 (Base Oil), Barite, Anco Mul P, Anco Mul OW, Anco Mul XL, Anco Mul Mod
Anco Mul OW Claytone 3, Lime, Calcium Chloride Powder, Phalt S, Mica, Cal-Carb

Date permit issued 3/13/2023 Date drilling commenced 5/8/2023 Date drilling ceased 10/1/2023
Date completion activities began 1/11/2024 Date completion activities ceased 2/8/2024
Verbal plugging (Y/N) N Date permission granted n/a Granted by n/a

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 215' Open mine(s) (Y/N) depths N
Salt water depth(s) ft n/a Void(s) encountered (Y/N) depths N
Coal depth(s) ft n/a Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

12/13/2024

WR-35
Rev. 8/23/13

Page 2 of 3

API 47- 095 - 02851 Farm name Jack & Jeffery Hair Well number RPT8-5

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	18.625"	30'	New	n/a	n/a	Grouted
Surface	17.5"	13.375"	434'	New	48# H-40	42'	Yes
Coal							
Intermediate 1	11"	8.625"	2,472'	New	24# J-55	123'	Yes
Intermediate 2							
Intermediate 3							
Production	7.875"	5.5"	16,628'	New	20# P-110	n/a	Yes
Tubing							
Packer type and depth set		n/a					

Comment Details Surface CTS with 20% OH excess / Intermediate CTS with 30% OH excess / Production CTS with 5% OH excess

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	n/a	n/a	n/a	n/a	CTS	8 hours
Surface	Class A	346	15.6	1.19	412	CTS	8 hours
Coal							
Intermediate 1	Class A	743	15.6	1.19	885	CTS	8 hours
Intermediate 2							
Intermediate 3							
Production	Class A	2601	14.5	1.18	3057	964'	8 hours
Tubing							

Drillers TD (ft) 16,667

Loggers TD (ft) 7,093

Deepest formation penetrated Marcellus

Plug back to (ft) n/a

Plug back procedure n/a

RECEIVED
Office of Oil and Gas

OCT 9 2024

Kick off depth (ft) 6,215

Department of
Environmental Protection

Check all wireline logs run ☐ caliper ☐ density ☒ deviated/directional ☐ induction
☐ neutron ☐ resistivity ☒ gamma ray ☐ temperature ☐ sonic

Well cored ☐ Yes ☒ No Conventional Sidewall Were cuttings collected ☒ Yes ☐ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

Prod. 5.5" x 7.375" Innovex Optimizer Centralizer. 1 every other joint in the lateral from TD to the top of tangent section/5.5" x 7.375" Innovex Optimizer Centralizer every 2nd joint to 200' inside Int./ 5.5" x 7.875" Bow Centralizer every 5 joints to surface

Int. 8-5/8" Hinged Centralizer - every third joint - 8-5/8" Centralizing Baskets one near top and bottom

Surface 13-3/8" Hinged Centralizer - every other joint Centralizing Basket on top joint

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ☒ No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS _____

WERE TRACERS USED ☐ Yes ☒ No TYPE OF TRACER(S) USED _____

12/13/2024

WR-35

REV.8/23/13

Page 1 of 3

API#47-095-02851

FARM NAME:

WELL NAME: RPT8 5H

		PERFORATION RECORD			
		Perforated from	Perforated To	Number of	
STAGE#	Perforation Date	MD FT.	MD FT.	Perforations	Formation
1	1/11/2024	16,547	16,592	40	Marcellus
2	1/12/2024	16,347	16,507	40	Marcellus
3	1/12/2024	16,147	16,307	40	Marcellus
4	1/13/2024	15,947	16,107	40	Marcellus
5	1/13/2024	15,747	15,907	40	Marcellus
6	1/13/2024	15,547	15,707	40	Marcellus
7	1/14/2024	15,347	15,507	40	Marcellus
8	1/14/2024	15,147	15,307	40	Marcellus
9	1/15/2024	14,947	15,107	40	Marcellus
10	1/30/2024	14,747	14,907	40	Marcellus
11	1/30/2024	14,547	14,707	40	Marcellus
12	1/30/2024	14,347	14,507	40	Marcellus
13	1/30/2024	14,147	14,307	40	Marcellus
14	1/31/2024	13,947	14,107	40	Marcellus
15	1/31/2024	13,747	13,907	40	Marcellus
16	2/1/2024	13,547	13,707	40	Marcellus

Stimulation information Per Stage

STAGE#	Stimulation Date	Average Rate (BPM)	Average Treatment Pressure	Max Breakdown Pressure	ISIP Pressure	Amount of Propan (lbs)	Amount of Water (bbls)
1	1/12/2024	84.1	8,305	5,412	3,714	222,500	6,348
2	1/12/2024	84.58	7,933	2,751	3,759	381,900	8,703
3	1/12/2024	85.3	7,941	6,227	4,625	399,900	10,746
4	1/13/2024	85.69	7,911	5,587	5,058	400,400	8,800
5	1/13/2024	86.9	7,754	5,881	4,883	401,000	8,022
6	1/14/2024	86.12	7,763	5,930	4,780	402,300	8,024
7	1/14/2024	85.74	7,985	5,829	4,452	399,500	8,416
8	1/14/2024	89.58	7,912	6,234	5,055	399,900	7,990
9	1/15/2024	86.59	7,879	6,365	5,227	400,400	8,171
10	1/30/2024	90.17	7,903	6,190	5,290	402,900	8,680
11	1/30/2024	90.04	7,711	5,892	5,282	400,100	8,347
12	1/30/2024	90.45	7,780	6,073	5,079	399,900	8,270
13	1/31/2024	90.61	7,759	7,466	5,431	401,400	8,195
14	1/31/2024	90.44	7,923	6,635	5,190	400,700	8,971
15	1/31/2024	90.29	7,769	5,924	5,328	400,200	8,474
16	2/1/2024	89.61	7,627	5,160	4,839	400,000	8,272

RECEIVED
Office of Oil and Gas

OCT 9 2024

Department of
Environmental Protection

12/13/2024

WR-35

REV.8/23/13

Page 2 of 3

API#47-095-02851

FARM NAME:

WELL NAME: RPT8 5H

PERFORATION RECORD					
		Perforated from	Perforated To	Number of	
STAGE#	Perforation Date	MD FT.	MD FT.	Perforations	Formation
17	2/1/2024	13,347	13,507	40	Marcellus
18	2/1/2024	13,147	13,307	40	Marcellus
19	2/1/2024	12,947	13,107	40	Marcellus
20	2/1/2024	12,747	12,907	40	Marcellus
21	2/2/2024	12,547	12,707	40	Marcellus
22	2/2/2024	12,347	12,507	40	Marcellus
23	2/3/2024	12,147	12,307	40	Marcellus
24	2/3/2024	11,947	12,107	40	Marcellus
25	2/3/2024	11,747	11,907	40	Marcellus
26	2/3/2024	11,547	11,707	40	Marcellus
27	2/3/2024	11,347	11,507	40	Marcellus
28	2/4/2024	11,147	11,307	40	Marcellus
29	2/4/2024	10,947	11,107	40	Marcellus
30	2/4/2024	10,747	10,907	40	Marcellus
31	2/5/2024	10,547	10,707	40	Marcellus
32	2/5/2024	10,347	10,507	40	Marcellus

Stimulation information Per Stage

STAGE#	Stimulation Date	Average Rate (BPM)	Average Treatment Pressure	Max Breakdown Pressure	ISIP Pressure			Amount of Propan (lbs)	Amount of Water (bbls)
17	2/1/2024	7,750	7,750	2,877	5,312	122,000	278,200	400,200	8,292
18	2/1/2024	7,982	7,982	6,428	5,315	120,900	279,000	399,900	8,339
19	2/1/2024	7,669	7,669	5,973	4,819	120,900	279,500	400,400	7,985
20	2/2/2024	7,484	7,484	5,394	4,864	122,300	278,600	400,900	7,950
21	2/2/2024	7,634	7,634	6,255	4,752	122,400	278,200	400,600	7,874
22	2/2/2024	7,562	7,562	6,025	5,043	120,900	279,300	400,200	7,944
23	2/3/2024	7,392	7,392	5,325	5,105	120,800	279,600	400,400	7,790
24	2/3/2024	7,549	7,549	5,375	5,081	122,800	277,900	400,700	7,623
25	2/3/2024	7,613	7,613	5,399	5,439	122,600	278,100	400,700	7,798
26	2/3/2024	7,504	7,504	5,811	5,306	120,900	279,400	400,300	7,911
27	2/4/2024	7,576	7,576	5,535	5,210	120,900	279,300	400,200	7,834
28	2/4/2024	7,656	7,656	4,535	5,086	121,400	279,200	400,600	10,987
29	2/4/2024	7,339	7,339	6,087	4,553	121,700	278,700	400,400	7,650
30	2/5/2024	7,199	7,199	5,129	4,604	121,600	281,100	402,700	7,562
31	2/5/2024	7,353	7,353	5,602	5,180	122,400	278,500	400,900	7,561
32	2/5/2024	7,183	7,183	5,963	5,188	122,400	278,000	400,400	9,890

RECEIVED
Office of Oil and Gas

OCT 9 2024

W. Department of
Environmental Protection

12/13/2024

WR-35

REV.8/23/13

Page 3 of 3

API#47-095-02851

FARM NAME:

WELL NAME: RPT8 5H

PERFORATION RECORD

		Perforated from	Perforated To	Number of	
STAGE#	Perforation Date	MD FT.	MD FT.	Perforations	Formation
33	2/5/2024	10,307	10,327	40	Marcellus
34	2/6/2024	10,107	10,127	40	Marcellus
35	2/6/2024	9,907	9,927	40	Marcellus
39	2/6/2024	9,707	9,727	40	Marcellus
37	2/6/2024	9,507	9,527	40	Marcellus
38	2/6/2024	9,307	9,327	40	Marcellus
39	2/7/2024	9,107	9,127	40	Marcellus
40	2/7/2024	8,907	8,927	40	Marcellus
41	2/7/2024	8,707	8,727	40	Marcellus
42	2/7/2024	8,507	8,527	40	Marcellus
43	2/7/2024	8,307	8,327	40	Marcellus
44	2/8/2024	8,107	8,127	40	Marcellus
45	2/8/2024	7,907	7,927	40	Marcellus
46	2/8/2024	7,707	7,727	40	Marcellus
47	2/8/2024	7,507	7,527	40	Marcellus
48	2/8/2024	7,307	7,327	40	Marcellus

Stimulation information Per Stage

STAGE#	Stimulation Date	Average Rate (BPM)	Average Treatment Pressure	Max Breakdown Pressure	ISIP Pressure	Amount of Propant (lbs)	Amount of Water (bbls)
33	2/5/2024	90.86	7,184	5,399	5,041	400,700	7533
34	2/6/2024	90.54	7,048	5,414	5,252	402,800	7322
35	2/6/2024	90.19	7,068	4,943	4,513	403,100	7306
39	2/6/2024	91.14	7,080	5,315	5,029	402,500	7223
37	2/6/2024	90.51	7,034	5,584	5,117	400,900	7146
38	2/7/2024	89.68	7,125	5,596	5,112	400,900	7157
39	2/7/2024	90.2	6,880	5,547	4,953	400,400	7168
40	2/7/2024	90.56	6,862	5,898	5,056	401,300	7278
41	2/7/2024	90.8	6,866	5,634	5,538	427,900	7675
42	2/7/2024	90.93	7,063	5,430	5,218	403,100	7306
43	2/8/2024	90.47	6,951	5,260	5,344	402,500	7223
44	2/8/2024	90.5	6,818	5,807	5,180	400,900	139
45	2/8/2024	90.81	6,877	5,723	5,212	400,900	7157
46	2/8/2024	90.92	6,912	6,368	5,142	400,400	7168
47	2/8/2024	91.9	6,852	5,847	5,294	401,300	7278
48	2/8/2024	90.88	6,915	5,470	4,489	427,900	7675

RECEIVED
Office of Oil and Gas
OCT 9 2024
Department of
Environmental Protection

12/13/2024

Fracture Start Date/Time:	1/12/24 9:44
Fracture End Date/Time:	2/8/24 22:35
State:	WV
County:	Tyler
API Number:	47-095-02851-0000
Operator Number:	
Well Name:	5H
Federal Well:	No
Indian Well:	No
Longitude:	-80.786016
Latitude:	39.483169
Long/Lat Projection:	NAD83
True Vertical Depth (TVD):	6,864'
Total Clean Fluid Volume* (gal):	16,247,448
Water Source Type	Groundwater < 1000 TDS
Percentage of Source	100
Well Type	GAS

[illegible]

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments	
Water	Operator	Carrier Fluid	Water	7732-18-5	100.00%	135,584,954	87.05979%		
100 Mesh	NexTier Completions Solutions	Propping Agent	Crystalline Silica	14808-60-7	99.90%	5,826,068	3.74095%		
40/70 Mesh	NexTier Completions Solutions	Propping Agent	Crystalline Silica	14808-60-7	99.90%	13,224,662	8.49162%		
15% HCl	NexTier Completions Solutions	Acid	Water	7732-18-5	85.00%	919,653	0.59051%		
15% HCl	NexTier Completions Solutions	Acid	Hydrochloric Acid	7647-01-0	15.00%	162,292	0.10421%		
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor	Ethylene glycol	107-21-1	45.00%	471	0.00030%		
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor	Glycol Ether EB	111-76-2	45.00%	471	0.00030%		
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor	N,N-Dimethylformamide	68-12-2	20.00%	209	0.00013%		
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor	Tar bases,quinoline derivs.,benzyl chloride-quaternized	72480-70-7	20.00%	209	0.00013%		
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor	Nonylphenol ethoxylated	127087-87-0	10.00%	105	0.00007%		
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor	Cinnamaldehyde	104-55-2	10.00%	105	0.00007%		
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor	Alcohols, C6-12	68603-15-6	10.00%	105	0.00007%		
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor	Water	7732-18-5	15.00%	157	0.00010%		

RECEIVED
Office of Oil and Gas
OCT 9 2024
WV Department of
Environmental Protection

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**
Water	Operator	Carrier Fluid	Water	7732-18-5	100.00%
10% HCl	NexTier Completions	Acid	Water	7732-18-5	90.00%
10% HCl	NexTier Completions	Acid	Hydrochloric Acid	7647-01-0	10.00%
100 Mesh	NexTier Completions	Propping Agent	Crystalline Silica	14808-60-7	99.90%
40/70 Mesh	NexTier Completions	Propping Agent	Crystalline Silica	14808-60-7	99.90%
15% HCl	NexTier Completions	Acid	Water	7732-18-5	85.00%
15% HCl	NexTier Completions	Acid	Hydrochloric Acid	7647-01-0	15.00%
15WF766	Nalco Champion	Friction Reducer	Oxyalkylated Alcohol	Proprietary	5.00%
15WF766	Nalco Champion	Friction Reducer	Hydrotreated Light Distillate	64742-47-8	30.00%
15WF766	Nalco Champion	Friction Reducer	Ethoxylated Sorbitan	9005-65-6	5.00%
15WF766	Nalco Champion	Friction Reducer	Ammonium Chloride	12125-02-9	5.00%
20% KCl	Anchor	Clay Control	Water	7732-18-5	80.00%
20% KCl	Anchor	Clay Control	Potassium Chloride	7447-40-7	20.00%
20/40 Mesh	NexTier Completions	Propping Agent	Titanium Dioxide	13463-67-7	0.10%
20/40 Mesh	NexTier Completions	Propping Agent	Silica, crystalline quartz	14808-60-7	98.70%
20/40 Mesh	NexTier Completions	Propping Agent	Iron Oxide	1309-37-1	0.10%
20/40 Mesh	NexTier Completions	Propping Agent	Aluminum Oxide	1344-28-1	1.10%
2000 PTW	Economy Polymers	Water Gelling Agent	Guar Gum	9000-30-0	100.00%
25% Sodium Hydroxide	Shrieve	Activator	Water	7732-18-5	81.00%
25% Sodium Hydroxide	Shrieve	Activator	Sodium Hydroxide	1310-73-2	26.00%
28% HCl	NexTier Completions	Hydrochloric Acid	Water	7732-18-5	70.00%
28% HCl	NexTier Completions	Hydrochloric Acid	Hydrochloric Acid	7647-01-0	30.00%
30/50 Arizona Sand	NexTier Completions	Propping Agent	Quartz	14808-60-7	100.00%
30/50 RCS	NexTier Completions	Propping Agent	Quartz	14808-60-7	98.00%
30/50 RCS	NexTier Completions	Propping Agent	Polyurethane Resin	57029-46-6	2.00%
40/140 Mesh	NexTier Completions	Propping Agent	Quartz	14808-60-7	99.90%
40/70 Mesh RCS	NexTier Completions	Propping Agent	Polyurethane Resin	57029-46-6	2.00%
40/70 Mesh RCS	NexTier Completions	Propping Agent	Crystalline Silica	14808-60-7	98.00%
7.5% HCl	NexTier Completions	Acid	Water	7732-18-5	85.00%
7.5% HCl	NexTier Completions	Acid	Hydrochloric Acid	7647-01-0	15.00%
AC100	Aegis	Biocide	Water	7732-18-5	85.00%
AC100	Aegis	Biocide	15% Hydrochloric Acid	7641-01-0	15.00%
AC-100	Astro-Chem Lab, Inc	Corrosion inhibitor	Water	7732-18-5	75.00%
AC-100	Astro-Chem Lab, Inc	Corrosion inhibitor	Propargyl Alcohol	107-19-7	15.00%
AC-100	Astro-Chem Lab, Inc	Corrosion inhibitor	Methanol	67-56-1	10.00%
AC-100	Astro-Chem Lab, Inc	Corrosion inhibitor	Isopropanol	67-63-0	1.00%
AC200	Aegis	Biocide	Water	7732-18-5	75.00%
AC200	Aegis	Biocide	Sodium Hypochlorite	007681-52-9	13.00%
AC200	Aegis	Biocide	Sodium Hydroxide	001310-73-2	2.00%
AC200	Aegis	Biocide	Sodium Chloride	007647-14-5	10.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024
Environmental Protection Department

AC300	Aegis	Biocide	Water	7732-18-5	60.00%
AC300	Aegis	Biocide	Sodium Chlorite	7758-19-2	35.00%
AC300	Aegis	Biocide	Sodium Chloride	7647-14-5	5.00%
AceFlow 3300	NexTier Completions Solutions	FRICITION REDUCER	STYRENE-ETHYLENE/PROPYLENE-(STYRENE)(SEP(S))	68648-89-5	5.00%
AceFlow 3300	NexTier Completions	FRICITION REDUCER	POLYACRYLAMIDE	9003-05-8	30.00%
AceFlow 3300	NexTier Completions	FRICITION REDUCER	FATTY ACID ESTER	Proprietary	5.00%
AceFlow 3300	NexTier Completions Solutions	FRICITION REDUCER	DISTILLATES, C8-26, BRANCHED AND LINEAR	848301-67-7	60.00%
ACI-100	ACE COMPLETIONS	ACID INHIBITOR	PYRIDINE, ALKYL	68391-11-7	10.00%
ACI-100	ACE COMPLETIONS	ACID INHIBITOR	MONOETHYLENE	107-21-1	75.00%
ACI-100	ACE COMPLETIONS	ACID INHIBITOR	ALKYL (C12-C14-SECONDARY) ALCOHOL, ETHOXYLATED	84133-50-6	5.00%
ACI-100	ACE COMPLETIONS	ACID INHIBITOR	3-FENYLPROPENAL	104-55-2	10.00%
ADM-190	Astro-Chem Lab, Inc	Iron control	Xylene	1330-20-7	7.00%
ADM-190	Astro-Chem Lab, Inc	Iron control	Water	7732-18-5	92.00%
ADM-190	Astro-Chem Lab, Inc	Iron control	Isopropanol	67-63-0	1.00%
ADM-190	Astro-Chem Lab, Inc	Iron control	Ethylbenzene	100-41-4	2.00%
AIC100D	Nalco	Iron Control	Citric Acid	77-92-9	100.00%
Alpha 1427	Baker Hughes	Biocide	Quaternary ammonium compound	68424-85-1	1-5%
Alpha 1427	Baker Hughes	Biocide	Glutaraldehyde	111-30-8	20-30%
Alpha 1427	Baker Hughes	Biocide	Ethanol	64-17-5	1-5%
Alpha 1427	Baker Hughes	Biocide	Didecyl dimethyl ammonium chloride	7173-51-5	5-10%
Alpha 452	Baker Hughes	Biocide	Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	60.00%
Alpha 452	Baker Hughes	Biocide	Phosphonates	Proprietary	40.00%
Ammonium Persulfate	Chemplex	Breaker	Ammonium Persulfate	7727-54-0	98.00%
Antimicrobial 220	Frac-Chem	Biocide	Quaternary Ammonium Compounds, Benxyl-c12-c16-alkyldimethyl, chlorides	68424-85-1	2.00%
Antimicrobial 220	Frac-Chem	Biocide	Glutaraldehyde	111-30-8	15.00%
Antimicrobial 220	Frac-Chem	Biocide	Didecyl dimethyl ammonium chloride	7173-51-5	2.00%
Antimicrobial 221	Frac-Chem	Biocide	Ethanol	64-17-5	2.00%
Antimicrobial 222	Frac-Chem	Biocide	Water	7732-18-5	79.00%
AP Break	Iron Horse Chemicals	Breaker	Ammonium Persulfate	7727-54-0	100.00%
AP Scale 2S	Chemplex	Scale Inhibitor	Polyacrylate Blend	Proprietary	7.00%
AP Scale 2S	Chemplex	Scale Inhibitor	Ethylene Glycol	107-21-1	35.00%
AP Surf 2	Blentech	Surfactant	isopropyl alcohol	67-63-0	45.00%

Bactron K-31	Nalco Champion	Biocide	Water	7732-18-5	75.00%
Bactron K-31	Nalco Champion	Biocide	Glutaraldehyde	111-30-8	25.00%
Bellacide 300	NexTier Completions	Biocide	Methanol	67-56-1	60.00%
Bellacide 300	NexTier Completions Solutions	Biocide	Tributyltetradecyl phosphonium chloride	81741-28-8	2.78%
Bellacide 300	NexTier Completions Solutions	Biocide	polyoxyethylene dimethyliminio ethylene dimethyliminio eth	31512-74-0	2.22%
Bellacide 300W	NexTier Completions	Biocide	Methanol	67-56-1	60.00%
Bellacide 300W	NexTier Completions Solutions	Biocide	Tributyltetradecyl phosphonium chloride	81741-28-8	2.78%
Bellacide 300W	NexTier Completions Solutions	Biocide	polyoxyethylene dimethyliminio ethylene dimethyliminio eth	31512-74-0	2.22%
Bio Exp 13-59	Shrieve	Crosslinker	Water	7732-18-5	80.00%
Bio Exp 13-59	Shrieve	Crosslinker	Ethylene Glycol	107-21-1	30.00%
Bio-Add 1200	Shrieve	Clay Control	Water	7732-18-5	15.00%
Bio-Add 1200	Shrieve	Clay Control	Non Haz Salt	Proprietary	75.00%
BIO-ADD 4576	Shrieve	Iron control	Water	7732-18-5	50.00%
BIO-ADD 4576	Shrieve	Iron control	Organic Acid	Proprietary	50.00%
Bio-Add 951	Shrieve	Friction Reducer	Water	7732-18-5	67.00%
Bio-Add 951	Shrieve	Friction Reducer	Sodium Chloride	7647-14-5	1.50%
Bio-Add 951	Shrieve	Friction Reducer	Petroleum Distillate	64742-47-8	30.00%
Bio-Add 951	Shrieve	Friction Reducer	Hydrotreated Light	12125-02-9	1.50%
Bio-Add 951	Shrieve	Friction Reducer	Ammonium chloride	Proprietary	1.50%
Bio-Add 951	Shrieve	Friction Reducer	2-Propenoic acid, polymer with 2-propenamide	Proprietary	1.50%
BioBalls MR	Santrol	Diverter	Poly lactide Resin	9051-89-2	Trade secret
Bioban 5:10	NexTier Completions Solutions	Biocide	quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	10.00%
Bioban 5:10	NexTier Completions	Biocide	Glutaral	111-30-8	10.00%
Bioban 5:10	NexTier Completions	Biocide	Ethanol	64-17-5	3.00%
Bio-Break 1001	Shrieve	Breaker	Diethylene glycol monobutyl ether	112-34-5	5.00%
Bio-Break 1001	Shrieve	Breaker	Ammonium Persulfate	7727-54-0	80.00%
Bio-Break 1002	Shrieve	Breaker	Ammonium Persulfate	7727-54-0	99.00%
Bio-Break 949	Shrieve	Non-emulsifying Agent	Propylene Glycol Ether	Proprietary	70.00%
Bio-Break 949	Shrieve	Non-emulsifying Agent	Naphthalene	91-20-3	1.50%
Bio-Break 949	Shrieve	Non-emulsifying Agent	Alkoxylated alkylphenol formaldehyde resin	Proprietary	28.50%
BIOC11139A	NexTier Completions	Biocide	Glutaraldehyde	111-30-8	10.00%
BIOC11139A	NexTier Completions	Biocide	ethanol	64-17-5	5.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024

WV Department of
Environmental Protection

BIOC11139A	NexTier Completions Solutions	Biocide	benzyl-(C12-C16 alkyl)-dimethyl-ammonium chloride	68424-85-1	30.00%
BIO-COR 1011	Shrieve	Corrosion inhibitor	Propargyl Alcohol	107-19-7	7.50%
BIO-COR 1011	Shrieve	Corrosion inhibitor	Polyoxylalkylenes	Proprietary	20.00%
BIO-COR 1011	Shrieve	Corrosion inhibitor	Olefin	Proprietary	2.50%
BIO-COR 1011	Shrieve	Corrosion inhibitor	Methanol	67-56-1	50.00%
BIO-COR 1011	Shrieve	Corrosion inhibitor	Fatty acids	Proprietary	20.00%
Bio-Cross 109	Shrieve	Crosslinker	Water	7732-18-5	60.00%
Bio-Cross 109	Shrieve	Crosslinker	Solvent naphtha, (petroleum) heavy aliphatic	64742-96-7	65.00%
BIO-CROSS 109M	Shrieve	Crosslinker	Distillates, Petroleum, Hydrotreated Light	64742-47-8	47.5-57.5%
Bio-Exp 13-22	Shrieve	Stabilizer	Water	7732-18-5	71.00%
Bio-Exp 13-22	Shrieve	Stabilizer	Sodium Thiosulfate	7772-98-7	31.00%
Bio-Exp 13-63	Shrieve	Breaker	Sodium Bromate	7789-38-0	70.00%
Bio-Exp 13-63	Shrieve	Breaker	Cured Resin	Proprietary	30.00%
Bio-Exp 14-23	Shrieve	Breaker	Water	7732-18-5	90.00%
Bio-Exp 14-23	Shrieve	Breaker	Sodium Bromate	7789-38-0	20.00%
Bio-Exp 14-8	Shrieve	Water Gelling Agent	Solvent naphtha, (petroleum) heavy aliphatic	64742-96-7	25.00%
Bio-Exp 14-8	Shrieve	Water Gelling Agent	Proprietary non-hazardous polymers	Proprietary	60.00%
Bio-Exp 14-8	Shrieve	Water Gelling Agent	Light Paraffin	64742-55-8	15.00%
Bio-Exp 14-8	Shrieve	Water Gelling Agent	Hydrotreated Petroleum	64742-54-7	15.00%
Bionix GA1203	Iron Horse Chemicals	Biocide	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	3.00%
Bionix GA1203	Iron Horse Chemicals	Biocide	Glutaraldehyde	111-30-8	20.00%
Bionix GA1203	Iron Horse Chemicals	Biocide	Didecyldimethylammonium chloride	7173-51-5	3.00%
BioRCK-1038	NexTier Completions Solutions	Biocide	Quarternary Ammonium Chloride	68424-85-1	10.00%
BioRCK-1038	NexTier Completions	Biocide	Glutaraldehyde	111-30-8	10.00%
BioRCK-1038	NexTier Completions	Biocide	Ethanol	64-17-5	3.00%
BIO-SCALE 1001	Shrieve	Scale Inhibitor	Water	7732-18-5	80.00%
BIO-SCALE 1001	Shrieve	Scale Inhibitor	Partially Neutralized Sulfonated Copolymer	Proprietary	30.00%
Bonderite	Univar	Acid Additive	Oleryl alcohol ethoxylated	Proprietary	10.00%
Bonderite	Univar	Acid Additive	Fatty acid	Proprietary	30.00%
Bonderite	Univar	Acid Additive	Cyclic amine reaction product with acetophenone and formaldehyde acid salt	Proprietary	10.00%
Bonderite	Univar	Acid Additive	Acetophenone	98-86-2	1.00%

RECEIVED
Office of Oil and Gas

OCT 9 2024

WV Department of
Environmental Protection

Bonderite	Univar	Acid Additive	1-Propoxy-2-propanol	1569-01-3	30.00%
BPC 68945	Baker Hughes	Biocide	Water	7732-18-5	70.00%
BPC 68945	Baker Hughes	Biocide	Sodium Chlorite	7758-19-2	30.00%
BR1	Economy Polymers	Breaker	Sodium Bromate	7789-38-0	100.00%
Brine Water	Operator	Winterizer	Water	7732-18-5	90.00%
Brine Water	Operator	Winterizer	Sodium Chloride	7647-14-5	30.00%
Brine Water	Operator	Winterizer	Potassium Chloride	7447-40-7	10.00%
Brine Water	Operator	Winterizer	Calcium Chloride	10043-52-4	10.00%
BUSAN 1058	Shrieve	Biocide	Water	7732-18-5	72.00%
BUSAN 1058	Shrieve	Biocide	Tetrahydro-3, 5-dimethyl-2H-1,3,3-thiadiazine-2-thione	533-74-4	24.00%
BUSAN 1058	Shrieve	Biocide	Sodium Hydroxide	1310-73-2	4.00%
CC-9000	Frac-Chem	Clay Control	Water	7732-18-5	30.00%
CC-9000	Frac-Chem	Clay Control	Choline chloride	67-48-1	70.00%
CCT SP Break 300	Crudechem	Breaker	SODIUM METABORATE	10555-76-7	5.00%
CCT SP Break 300	Crudechem	Breaker	Perboric acid (HBO(O2)), sodium salt, tetrahydrate	10486-00-7	97.00%
Chlorine Dioxide	Baker Hughes	Biocide	Chlorine Dioxide	10049-04-4	37.33%
Chlorine Dioxide	Baker Hughes	Biocide	Chlorine Dioxide	7631-90-5	0.85%
Chlorine Dioxide	Baker Hughes	Biocide	Chlorine Dioxide	870-72-4	0.25%
Chlorine Dioxide	Baker Hughes	Biocide	Chlorine Dioxide	7732-18-5	61.56%
Chlorine Dioxide Solution <	Sabre	Biocide	Water	7732-18-5	99.50%
Chlorine Dioxide Solution <	Sabre	Biocide	Chlorine Dioxide	10049-04-4	0.50%
CIA-12	NexTier Completions	Acid corrosion inhibitor	Ethylene glycol	107-21-1	45.00%
CIA-12	NexTier Completions	Acid corrosion inhibitor	Glycol Ether EB	111-76-2	45.00%
CIA-12	NexTier Completions	Acid corrosion inhibitor	N,N-Dimethylformamide	68-12-2	20.00%
CIA-12	NexTier Completions Solutions	Acid corrosion inhibitor	Tar bases,quinoline derivs.,benzyl chloride-quaternized	72480-70-7	20.00%
CIA-12	NexTier Completions	Acid corrosion inhibitor	Nonylphenol ethoxylated	127087-87-0	10.00%
CIA-12	NexTier Completions	Acid corrosion inhibitor	Cinnamaldehyde	104-55-2	10.00%
CIA-12	NexTier Completions	Acid corrosion inhibitor	Alcohols, C6-12	68603-15-6	10.00%
CIA-12	NexTier Completions	Acid corrosion inhibitor	Water	7732-18-5	15.00%
Citric Acid	Univar	Acid Additive	Water	7732-18-5	65.00%
Citric Acid	Univar	Acid Additive	Citric Acid	77-92-9	50.00%
CL-650	Frac-Chem	Crosslinker	Water	7732-18-5	60.00%
CL-650	Frac-Chem	Crosslinker	Ethylene Glycol	107-21-1	40.00%
Clayplex 650	Chemplex	Clay Control	Water	7732-18-5	55.00%
Clayplex 650	Chemplex	Clay Control	Ethananminium, 2-hydroxy-N, N, N-trimethyl-, chloride	67-48-1	35.00%
ClaySeal 70	Crudechem	Clay Stabilzer	Quaternary Ammonium Salt Blend	Proprietary	100.00%
Clearal 267	NexTier Completions	Biocide	Glutaraldehyde	111-30-8	8.00%

Clearal 267	NexTier Completions Solutions	Biocide	Alkyl dimethyl benzyl ammonium chloride	68391-01-5	2.00%
Clearal 267	NexTier Completions	Biocide	Water	7732-18-5	90.00%
Clearal 268	Chemstream	Biocide	Glutaraldehyde	111-30-8	20.00%
Clearal 268	Chemstream	Biocide	Didecyl dimethyl ammonium chloride	7173-51-5	3.00%
Clearal 268	Chemstream	Biocide	Quaternary Ammonium Compounds	68424-85-1	3.00%
Clearal 268	Chemstream	Biocide	Ethanol	64-17-5	1.50%
Clearal 268	Chemstream	Biocide	Water	7732-18-5	80.00%
Clearal 270a	NexTier Completions	Biocide	Glutaraldehyde	111-30-8	30.00%
Clearal 270a	NexTier Completions Solutions	Biocide	Didecyl dimethyl ammonium Chloride	7173-51-5	10.00%
Clearal 270a	NexTier Completions Solutions	Biocide	Quaternary ammonium compounds, benzyl-C12-16 alkyldimethyl, chlorides	68424-85-1	10.00%
Clearal 270a	NexTier Completions	Biocide	Ethanol	64-17-5	5.00%
CLO2	Crudechem	Biocide	Water	7732-18-5	39.50%
CLO2	Crudechem	Biocide	Sodium chlorite	7758-19-2	26.00%
CLO2	Crudechem	Biocide	Sodium Chloride	7647-14-5	3.00%
CLO2	Crudechem	Biocide	Hydrochloric Acid	7647-01-0	31.50%
CoolSet	Fairmount Santrol	Propping Agent	Phenol-formaldehyde Novolak Resin	9003-35-4	5.00%
CoolSet	Fairmount Santrol	Propping Agent	Crystalline Silica (quartz)	14808-60-7	99.50%
CorrSorb 3600	Baker Hughes	Corrosion inhibitor	Quaternary Ammonium Compound	61789-71-7	30.00%
CorrSorb 3600	Baker Hughes	Corrosion inhibitor	Ethylene Glycol	107-21-1	1.00%
CorrSorb 3600	Baker Hughes	Corrosion inhibitor	Crystalline Silica: Quartz	14808-60-7	1.00%
CorrSorb 3600	Baker Hughes	Corrosion inhibitor	Acid Phosphate Ester	9046-01-9	10.00%
CRS 1080G	ChemEOR	Non-emulsifying Agent	Water	7732-18-5	5.00%
CRS 1080G	ChemEOR	Non-emulsifying Agent	Surfactants	Proprietary	35.00%
CRS 1080G	ChemEOR	Non-emulsifying Agent	Ethanol	64-17-5	10.00%
CS 4200	Chevron	Surfactant	01154100-5347P	Trade Secret (Component 2)	30.00%
CS 4200	Chevron	Surfactant	01154100-5346P	Trade Secret (Component 1)	45.00%
DDAC	Finoric	Biocide	Ethanol	64-17-5	40.00%
DDAC	Finoric	Biocide	Didecyl dimethyl Ammonium Chloride	7173-51-5	60.00%
Div. + 1357	Diverter Plus	Diverter	Polyactide Resin	9051-89-2	98.00%
Div. + 1370	Diverter Plus	Diverter	Polyactide Resin	9051-89-2	98.00%
Diverter Plus 1357	Diverter Plus	Diverter	Polyactide Resin	9051-89-2	98.00%
Diverter Plus 1370	Diverter Plus	Diverter	Polyactide Resin	9051-89-2	98.00%
DMUL 150	Iron Horse Chemicals	Non-emulsifying Agent	Isopropyl alcohol	67-63-0	10.00%
DMUL 150	Iron Horse Chemicals	Non-emulsifying Agent	Alcohol Ethoxylate	68439-46-3	10.00%

RECEIVED
Office of Oil and Gas

OCT 9 2024

www.Department of
Environmental Protection

DMUL 150	Iron Horse Chemicals	Non-emulsifying Agent	2-propenoic acid, polymer with 4-(1,1-dimethylethyl)phenol, formaldehyde, 2,5-furandione, methyloxirane, 4-methylbenzoic acid	129828-31-5	10.00%
Econo DF-1	Economy Polymers	Defoamer	Organic Dispersant	Proprietary	100.00%
Econo-398	Economy Polymers	Biocide	Tetrahydro-3, 5-dimethyl-2H-1,3,3-thiadiazine-2-thione	533-74-4	98.00%
Econo-B648L	Economy Polymers	Biocide	Water	7732-18-5	72.00%
Econo-B648L	Economy Polymers	Biocide	Tetrahydro-3, 5-dimethyl-2H-1,3,3-thiadiazine-2-thione	533-74-4	24.00%
Econo-B648L	Economy Polymers	Biocide	Sodium Hydroxide	1310-73-2	4.00%
EconoCap-BR	Economy Polymers	Breaker	Sodium Bromate	7789-38-0	75.00%
EconoCap-BR	Economy Polymers	Breaker	Resin Compound	Proprietary	15.00%
EconoCap-BR	Economy Polymers	Breaker	Crystalline Silica	14808-60-7	10.00%
EconoCap-HP	Economy Polymers	Breaker	Resin Compound	Proprietary	15.00%
EconoCap-HP	Economy Polymers	Breaker	Crystalline Silica	14808-60-7	10.00%
EconoCap-HP	Economy Polymers	Breaker	Ammonium Persulfate	7727-54-0	75.00%
Econo-CI200	Economy Polymers	Corrosion inhibitor	Water	7732-18-5	10.00%
Econo-CI200	Economy Polymers	Corrosion inhibitor	Methanol	67-56-1	80.00%
Econo-CI200	Economy Polymers	Corrosion inhibitor	Fatty Acids	Proprietary	10.00%
Econo-CS35	Economy Polymers	Activator	Water	7732-18-5	80.00%
Econo-CS35	Economy Polymers	Activator	Sodium Hydroxide	1310-73-2	35.00%
Econo-FR300	Economy Polymers	Friction Reducer	Mineral Oil	64742-47-8	25.00%
Econo-FR300	Economy Polymers	Friction Reducer	Acrylamide and Acrylic Acid Copolymer	25987-30-8	30.00%
Econo-FR400	Economy Polymers	Friction Reducer	Water	7732-18-5	40.00%
Econo-FR400	Economy Polymers	Friction Reducer	Sorbitan Monooleate	1338-43-8	2.00%
Econo-FR400	Economy Polymers	Friction Reducer	Phosphate Esters of Alcohol Ethoxylate	68585-36-4	2.00%
Econo-FR400	Economy Polymers	Friction Reducer	Mineral Oil	64742-47-8	25.00%
Econo-FR400	Economy Polymers	Friction Reducer	Ammonium Chloride	12125-02-9	2.00%
Econo-FR400	Economy Polymers	Friction Reducer	Acrylamide and Acrylic Acid Copolymer	25987-30-8	30.00%
Econo-Max	Economy Polymers	Clay Stabilizer	Water	7732-18-5	40.00%
Econo-Max	Economy Polymers	Clay Stabilizer	Choline chloride	67-48-1	60.00%
Ecopol Breaker-BRL	Economy Polymers	Breaker	Water	7732-18-5	90.00%
Ecopol Breaker-BRL	Economy Polymers	Breaker	Sodium Bromate	7789-38-0	20.00%
Ecopol DBXL-90	Economy Polymers	Crosslinker	Ulexite	1319-33-1	50.00%
Ecopol DBXL-90	Economy Polymers	Crosslinker	Petroleum Distillates (Mineral Oil)	64742-47-8	55.00%
Ecopol DBXL-90	Economy Polymers	Crosslinker	Organophilic Clay	68953-58-2	3.00%
Ecopol DBXL-90	Economy Polymers	Crosslinker	Ethoxylated Alcohol	9043-30-5	3.00%

RECEIVED
Office of Oil and Gas

OCT 9 2024

Department of
Environmental Protection

Ecopol Gelbreak-EL2X	Economy Polymers	Breaker	Water	7732-18-5	70.00%
Ecopol Gelbreak-EL2X	Economy Polymers	Breaker	Sodium Chloride	7647-14-5	20.00%
Ecopol Gelbreak-EL2X	Economy Polymers	Breaker	Hemicellulase Enzyme	Proprietary	10.00%
Ecopol-2000	Economy Polymers	Water Gelling Agent	Guar Gum	9000-30-0	100.00%
Ecopol-2000LMS	Economy Polymers	Water Gelling Agent	Petroleum Distillates (Mineral Oil)	64742-47-8	55.00%
Ecopol-2000LMS	Economy Polymers	Water Gelling Agent	Organophilic Clay	68953-58-2	3.00%
Ecopol-2000LMS	Economy Polymers	Water Gelling Agent	Guar Gum	9000-30-0	50.00%
Ecopol-2000LMS	Economy Polymers	Water Gelling Agent	Ethoxylated Alcohol	9043-30-5	0.50%
Ecopol-EC101	Economy Polymers	Crosslinker	Water	7732-18-5	30.00%
Ecopol-EC101	Economy Polymers	Crosslinker	Sodium Hydroxide	1310-73-2	10.00%
Ecopol-EC101	Economy Polymers	Crosslinker	Potassium Metaborate	13709-94-9	25.00%
Ecopol-EC101	Economy Polymers	Crosslinker	Potassium Hydroxide	1310-58-3	10.00%
Ecopol-EC101	Economy Polymers	Crosslinker	Ethylene Glycol	107-21-1	55.00%
Ecopol-FEAC	Economy Polymers	Iron control	Citric Acid	77-92-9	40.00%
Ecopol-FEAC	Economy Polymers	Iron control	Acetic Acid	64-19-7	60.00%
Ecopol-HTSL	Economy Polymers	Temperature Stabilizer	Water	7732-18-5	70.00%
Ecopol-HTSL	Economy Polymers	Temperature Stabilizer	Sodium Thiosulfate	7772-98-7	40.00%
Ecopol-ME100	Economy Polymers	Surfactant	Water	7732-18-5	25.00%
Ecopol-ME100	Economy Polymers	Surfactant	Triethylene Glycol	112-27-6	25.00%
Ecopol-ME100	Economy Polymers	Surfactant	Methanol	64-17-5	25.00%
Ecopol-ME100	Economy Polymers	Surfactant	Coconut Diethanolamide	68603-42-9	50.00%
Ecopol-NE601	Economy Polymers	Non-emulsifying Agent	Water	7732-18-5	30.00%
Ecopol-NE601	Economy Polymers	Non-emulsifying Agent	Triethylene Glycol	112-27-6	15%
Ecopol-NE601	Economy Polymers	Non-emulsifying Agent	Methanol	64-17-5	50.00%
Ecopol-NE601	Economy Polymers	Non-emulsifying Agent	Coconut Diethanolamide	68603-42-9	25.00%
Ecopol-SI2000	Economy Polymers	Scale Inhibitor	Ethylene Glycol	107-21-1	40.00%
EnviroSurf 6	DCS	Surfactant	Water	7732-18-5	75.00%
EnviroSurf 6	DCS	Surfactant	Limonene	5989-27-5	1.25%
FE-55	ACE COMPLETIONS	IRON CONTROL	CITRIC ACID	77-92-9	40.00%
FE-55	ACE COMPLETIONS	IRON CONTROL	ACETIC ACID	64-19-7	60.00%
Finicide GQ 510	Finoric	Biocide	quaternary ammonium compounds, benzyl-C12-C16- alkyldimethyl, chlorides	68424-85-1	10.00%
Finicide GQ 510	Finoric	Biocide	Methanol	67-56-1	2.00%
Finicide GQ 510	Finoric	Biocide	Glutaraldehyde	111-30-8	5.00%
FR-1000	Rockwater	Friction Reducer	Other Components Below Reportable Levels		75.00%
FR-1000	Rockwater	Friction Reducer	Mineral Oil	Proprietary	25.00%
FR-100AE	Universal Pressure Pumping	Friction Reducer	Mineral Oil	Proprietary	20.00%
FR-1010	Rockwater	Friction Reducer	Surfactant	Proprietary	5.00%
FR-1010	Rockwater	Friction Reducer	Other Components Below Reportable Levels	Proprietary	65.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024
Environmental Protection Department

FR-1010	Rockwater	Friction Reducer	Mineral Oil	Proprietary	30.00%
FR-11	NexTier Completions	Friction Reducer	Water	7732-18-5	50.00%
FR-11	NexTier Completions	Friction Reducer	Chemplex-Polymer-00019	Proprietary	20.00%
FR-11	NexTier Completions Solutions	Friction Reducer	Petroleum distillate, Hydrotreated Light	64742-47-8	20.00%
FR-11	NexTier Completions	Friction Reducer	oleic acid diethanolamide	93-83-4	2.00%
FR-11	NexTier Completions	Friction Reducer	alcohols, C 12-16,	68551-12-2	2.00%
FR-2800C	Chemstream	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8	30.00%
FR-2800C	Chemstream	Friction Reducer	alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	5.00%
FR-2800C	Chemstream	Friction Reducer	Water	7732-18-5	60.00%
FR-2800C	Chemstream	Friction Reducer	Polyacrylamide	9003-05-8	60.00%
FR-30V	Iron Horse Chemicals	Friction Reducer	Hydrotreated light Distillate (petroleum)	64742-47-8	60.00%
FR-30V	Iron Horse Chemicals	Friction Reducer	Ethoxylated branched C11-C14, C13 rich alcohols	78330-21-9	5.00%
FR-30V	Iron Horse Chemicals	Friction Reducer	alcohols, C12-16, ethoxylated	68551-12-2	5.00%
FR-516	Frac-Chem	Friction Reducer	Water	7732-18-5	66.00%
FR-516	Frac-Chem	Friction Reducer	Petroleum Distillates	64742-47-8	24.00%
FR-516	Frac-Chem	Friction Reducer	Ammonium Chloride	12125-02-9	10.00%
Fresh Water	Operator	Carrier Fluid	Water	7732-18-5	100.00%
FWB100D	Nalco	Live Breaker	Ammonium Persulphate	7727-54-0	100.00%
GA-15L	Frac-Chem	Water Gelling Agent	Suspending Agent	1302-78-9	5.00%
GA-15L	Frac-Chem	Water Gelling Agent	Petroleum Distillate	64742-47-8	40.00%
GA-15L	Frac-Chem	Water Gelling Agent	Guar Gum	9000-30-0	55.00%
GB 300 E HT	Dakota Chemical	Breaker	Diethylene glycol monobutyl ether	112-34-5	5.00%
GB 300 E HT	Dakota Chemical	Breaker	Ammonium Persulfate	7727-54-0	80.00%
GB-100 EHT	Dakota Chemical	Breaker	Silica, crystalline quartz	14808-60-7	16.00%
GB-100 EHT	Dakota Chemical	Breaker	Cured Acrylic Resin	N/A	25.00%
GB-100 EHT	Dakota Chemical	Breaker	Ammonium persulfate	7727-54-0	60.00%
Greenhib 679	Chemplex	Scale Inhibitor	Scale inhibitor	Proprietary	40.00%
Greenhib 679	Chemplex	Scale Inhibitor	Glycerine	56-81-5	30.00%
Gyptron T-475	Nalco Champion	Scale Inhibitor	Water	7732-18-5	20.00%
Gyptron T-475	Nalco Champion	Scale Inhibitor	Potassium Chloride	7447-40-7	5.00%
Gyptron T-475	Nalco Champion	Scale Inhibitor	Methanol	67-56-1	10.00%
Gyptron T-475	Nalco Champion	Scale Inhibitor	Ethylene Glycol	107-21-1	30.00%
Gyptron T-475	Nalco Champion	Scale Inhibitor	Amine Phosphate 5, Potassium Salt	Proprietary	30.00%
Gyptron T-475	Nalco Champion	Scale Inhibitor	Amine Phosphate 5	Proprietary	5.00%
Hi Flow 14	DCS	Friction Reducer	Petroleum Distillate Hydrotreated Light	64742-47-8	45.00%

RECEIVED
Office of Oil and Gas
N/A
OCT 9 2024
Department of
Environmental Protection

Hi Flow 5	DCS	Friction Reducer	Petroleum Distillate Hydrotreated Light	64742-47-8	28.00%
HiRate Plus 1200	Innospec Oilfield Services	Friction Reducer	Distillates, Petroleum, Hydrotreated Light	64742-47-8	30.00%
HiRate Plus 1200	Innospec Oilfield Services	Friction Reducer	4-Nonylphenol, branched,ethoxylated	127087-87-0	4.99%
HpH-970	Frac-Chem	Activator	Water	7732-18-5	65.00%
HpH-970	Frac-Chem	Activator	Sodium Hydroxide	1310-73-2	35.00%
Hydrochloric Acid	Sabre	Hydrochloric Acid	Water	7732-18-5	85.00%
Hydrochloric Acid	Sabre	Hydrochloric Acid	Hydrogen Chloride	7647-01-0	15.00%
Hydrochloric Acid (7.5%)	Universal Pressure Pumping	Acidizing	Hydrochloric Acid	7647-01-0	15.00%
Hydrogen Chloride	Baker Hughes	Biocide	Water	7732-18-5	85.00%
Hydrogen Chloride	Baker Hughes	Biocide	Hydrogen Chloride	7647-01-0	15.00%
ICC 400	Iron Horse Chemicals	Clay Stabilzer	magnesium chloride	7786-30-3	confidential
ICC 400	Iron Horse Chemicals	Clay Stabilzer	Citric Acid	77-92-9	18.00%
Innoprop RC	US Silica	Propping Agent	Phenol-formaldehyde	9003-35-4	5.00%
Innoprop RC	US Silica	Propping Agent	Hexamine	100-97-0	0.40%
Innoprop RC	US Silica	Propping Agent	Crystalline Silica (quartz)	14808-60-7	98.00%
ISR-100	WadeCo Specialties	Biocide	Proprietary	Proprietary	100.00%
KAI-12	NexTier Completions	Corrosion inhibitor	xylene	1330-20-7	5.00%
KAI-12	NexTier Completions	Corrosion inhibitor	prop-2-yn-1-ol	107-19-7	5.00%
KAI-12	NexTier Completions	Corrosion inhibitor	Methanol	67-56-1	90.00%
KAI-12	NexTier Completions	Corrosion inhibitor	isoproyl alcohol	67-63-0	5.00%
KAI-12	NexTier Completions	Corrosion inhibitor	fatty imidazoline	61790-69-0	5.00%
KAI-12	NexTier Completions	Corrosion inhibitor	ethylbenzene	100-41-4	1.00%
KAI-12	NexTier Completions	Corrosion inhibitor	Alcohols, C7-9-iso-, C8-rich	68526-83-0	5.00%
KAI-9	Economy Polymers	Corrosion inhibitor	Water	7732-18-5	10.00%
KAI-9	Economy Polymers	Corrosion inhibitor	Fatty Acids	61790-12-3	10.00%
KCC-9	NexTier Completions	Clay Control	Water	7732-18-5	60.00%
KCC-9	NexTier Completions	Clay Control	Trade Secret	Proprietary	60.00%
KCC-9	NexTier Completions	Clay Control	Trade Secret	Proprietary	15.00%
KDF-1	NexTier Completions Solutions	Defoamer	hazardous under the criteria of the federal OSHA Hazard Communication Standard 29CFR 1910.1200 this material is not	Proprietary	100.00%
KDF-3	NexTier Completions Solutions	Defoamer	hazardous under the criteria of the federal OSHA Hazard Communication Standard 29CFR 1910.1200	Proprietary	100.00%
KFE-14	NexTier Completions Solutions	Surfactant	dipropylene glycol, monomethyl ether	34590-94-8	30.00%
KFE-14	NexTier Completions	Surfactant	Citrus Terpenes	68647-72-3	10.00%
KFEAC-30	NexTier Completions	Iron control	citric acid	77-92-9	40.00%

RECEIVED
Office of Oil and Gas

OCT 9 2024

U.S. Department of
Environmental Protection

KFEAC-30	NexTier Completions	Iron control	acetic acid	64-19-7	60.00%
KFR-12	NexTier Completions Solutions	Friction Reducer	Distillates, Petroleum, Hydrotreated Light	64742-47-8	45.00%
KFR-12	NexTier Completions Solutions	Friction Reducer	Alcohols, C12-13-branched and linear, ethoxylated, non-sulfonated	120313-48-6	5.00%
KFR-36	NexTier Completions Solutions	Friction Reducer	Distillates, Petroleum, Hydrotreated Light	64742-47-8	60.00%
KFR-38	NexTier Completions	Friction Reducer	Water	7732-18-5	60.00%
KFR-38	NexTier Completions	Friction Reducer	Petroleum Distillate	64742-47-8	20.00%
KFR-38	NexTier Completions	Friction Reducer	Oleic Acid Diethanolamide	93-83-4	1.00%
KFR-38	NexTier Completions	Friction Reducer	Ammonium Chloride	12125-02-9	1.00%
KFR-40	NexTier Completions	Friction Reducer	Proprietary Surfactant Blend	Proprietary	30.00%
KFR-40	NexTier Completions	Friction Reducer	Proprietary Polymer	Proprietary	30.00%
KFR-40	NexTier Completions Solutions	Friction Reducer	Distillates (Petroleum), Hydrotreated Light	64742-47-8	5.00%
KGBO-1	NexTier Completions	Breaker	Sodium perborate	10486-00-7	95.00%
KpH-14L	NexTier Completions	pH Control	Water	7732-18-5	75.00%
KpH-14L	NexTier Completions	pH Control	Sodium Hydroxide	1310-73-2	25.00%
KS-15	NexTier Completions	Surfactant	Water	7732-18-5	75.00%
KS-15	NexTier Completions	Surfactant	Methanol	67-56-1	30.00%
KS-15	NexTier Completions	Surfactant	Alkoxylated alcohol	78330-23-1	15.00%
KSI-20	NexTier Completions	Scale Inhibitor	Phosphonic acid	Proprietary	10.00%
KSI-20	NexTier Completions Solutions	Scale Inhibitor	nitrilotrimethylenetris(phosphonic acid)	Proprietary	5.00%
KSI-20	NexTier Completions	Scale Inhibitor	Methanol	67-56-1	15.00%
KSI-24	NexTier Completions	Scale Inhibitor	proprietary amine	Proprietary	5.00%
KSI-24	NexTier Completions	Scale Inhibitor	polyphosphonic acid	Proprietary	20.00%
KSI-24	NexTier Completions	Scale Inhibitor	hydrochloric acid (HCl)	7647-01-0	1.00%
KSI-24	NexTier Completions	Scale Inhibitor	amine phosphonate	Proprietary	20.00%
KSI-24W	NexTier Completions	Scale Inhibitor	proprietary amine	Proprietary	2.00%
KSI-24W	NexTier Completions	Scale Inhibitor	polyphosphonic acid	Proprietary	2.00%
KSI-24W	NexTier Completions	Scale Inhibitor	Methanol	67-56-1	15.00%
KSI-24W	NexTier Completions	Scale Inhibitor	hydrochloric acid	7647-01-0	1.00%
KSI-24W	NexTier Completions	Scale Inhibitor	Ethylene Glycol	107-21-1	5.00%
KSI-24W	NexTier Completions	Scale Inhibitor	ammonium chloride	12125-02-9	1.00%
KSI-24W	NexTier Completions	Scale Inhibitor	amine phosphonate	Proprietary	2.00%
KSV-17	Rockwater Energy Solutions	High Viscosity Friction	Water	7732-18-5	10.00%
KSV-17	Rockwater Energy Solutions	High Viscosity Friction	Surfactant Blend	Proprietary	10.00%
KSV-17	Rockwater Energy Solutions	High Viscosity Friction Reducer	Petroleum Distillate Hydrotreated Light	64742-47-8	80.00%
KWBO-13	NexTier Completions	Breaker	Ammonium persulfate	7727-54-0	85.00%
KWG-111L	NexTier Completions	Gelling Agent	Trade Secret	Proprietary	10.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024

www.Department of
Environmental Protection

KWG-111L	NexTier Completions Solutions	Gelling Agent	Solvent naptha (petroleum) heavy aliph.	64742-96-7	60.00%
KWG-111L	NexTier Completions	Gelling Agent	Guar Gum	9000-30-0	60.00%
KWG-7L	NexTier Completions	Gelling Agent	Trade Secret	Proprietary	5.00%
KWG-7L	NexTier Completions	Gelling Agent	Trade Secret	Proprietary	3.00%
KWG-7L	NexTier Completions	Gelling Agent	Trade Secret	Proprietary	3.00%
KWG-7L	NexTier Completions Solutions	Gelling Agent	Solvent Naptha (Petroleum), Heavy aliph.	64742-96-7	60.00%
KWG-7L	NexTier Completions	Gelling Agent	Sodium carboxy methyl	9004-32-4	50.00%
KWXB-12	NexTier Completions	Crosslinker	Trade Secret	Proprietary	33.00%
KWXB-12	NexTier Completions	Crosslinker	Sodium Hydroxide	1310-73-2	34.00%
KWXB-12	NexTier Completions	Crosslinker	Ethanediol	107-21-1	33.00%
KWXB-19	NexTier Completions	Crosslinker	Water	7732-18-5	38.50%
KWXB-19	NexTier Completions	Crosslinker	Trade Secret	Proprietary	confidential
KWXB-19	NexTier Completions	Crosslinker	Trade Secret	Proprietary	confidential
KWXB-19	NexTier Completions	Crosslinker	Inorganic Borates	1319-33-1	confidential
KWXB-19	NexTier Completions	Crosslinker	Ethylene glycol	107-21-1	24.00%
KWXB-19	NexTier Completions Solutions	Crosslinker	disodium tetraborate decahydrate	1303-96-4	confidential
KWXB-20	NexTier Completions	Crosslinker	Sodium Hydroxide	1310-73-2	10.00%
KWXB-20	NexTier Completions	Crosslinker	Sodium Borate	1303-96-4	10.00%
KWXB-20	NexTier Completions	Crosslinker	Ethylen glycol	107-21-1	10.00%
LX-204E	Flotek	Friction Reducer	Petroleum distillates, hydrotreated light	64742-47-8	30.00%
LX-204E	Flotek	Friction Reducer	Ethoxylated Alcohol	68551-12-2	1.00%
Magnacide 575	Baker Hughes	Microbiocide	Tetrakis(hydroxymethyl)phosphonium sulfate	55566-30-8	100.00%
Mayoquest 1900	Chemplex	Scale Inhibitor	Water	7732-18-5	44.00%
Mayoquest 1900	Chemplex	Scale Inhibitor	Hydrochloric acid	7647-01-0	6.00%
Mayoquest 1900	Chemplex	Scale Inhibitor	Bis-triamine	34690-00-1	50.00%
MBC 10:5	NexTier Completions	Biocide	Other Components	Proprietary	80.00%
MBC 10:5	NexTier Completions	Biocide	Glutaraldehyde	111-30-8	5.00%
MBC 10:5	NexTier Completions	Biocide	Ethanol	64-17-5	5.00%
MBC 10:5	NexTier Completions Solutions	Biocide	Alkyl dimethyl benzyl ammonium chloride	68424-85-1	10.00%
MC B-8614	Multi-Chem	Biocide	Glutaraldehyde	111-30-8	30.00%
MC B-8614	Multi-Chem	Biocide	Alkyl (C12-16) dimethylbenzylammonium chloride	68424-85-1	5.00%
MCS-376	Ace Completions	Surfactant	Water	7732-18-5	65.00%
MCS-376	Ace Fluid Solutions	Surfactant	Water	7732-18-5	68.50%
MCS-376	Ace Completions	Surfactant	Solvent Naptha (Petroleum), Heavy aromatic	64742-94-5	1.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024
www.Department of
Environmental Protection

MCS-376	Ace Fluid Solutions	Surfactant	Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5	1.00%
MCS-376	Ace Completions	Surfactant	Proprietary	Proprietary	10.00%
MCS-376	Ace Fluid Solutions	Surfactant	Proprietary	Proprietary	7.50%
MCS-376	Ace Completions	Surfactant	Poly(oxy-1,2-ethanediyl), alpha hexyl-omega-hydroxy	31726-34-8	3.00%
MCS-376	Ace Fluid Solutions	Surfactant	Poly(oxy-1,2-ethanediyl), alpha hexyl-omega-hydroxy	31726-34-8	3.00%
MCS-376	Ace Completions	Surfactant	Isotridecanol, ethoxylated	9043-30-5	3.00%
MCS-376	Ace Fluid Solutions	Surfactant	Isotridecanol, ethoxylated	9043-30-5	3.00%
MCS-376	Ace Completions	Surfactant	Ethylene oxide/propylene oxide co-polymer	9003-11-6	8.00%
MCS-376	Ace Fluid Solutions	Surfactant	Ethylene oxide/propylene oxide co-polymer	9003-11-6	7.50%
MCS-376	Ace Completions	Surfactant	Diethanolamine	111-42-2	1.00%
MCS-376	Ace Fluid Solutions	Surfactant	Diethanolamine	111-42-2	1.00%
MCS-376	Ace Completions	Surfactant	Coconut diethanolamide	68603-42-9	6.00%
MCS-376	Ace Fluid Solutions	Surfactant	Coconut Diethanolamide	68603-42-9	5.50%
MCS-376	Ace Completions	Surfactant	Alcohol	68609-68-7	3.00%
MCS-376	Ace Fluid Solutions	Surfactant	Alcohol	68609-68-7	3.00%
Mega-Surf 101	Shrieve	Surfactant	Water	7732-18-5	55.00%
Mega-Surf 101	Shrieve	Surfactant	Propylene Glycol Ether	Proprietary	20.00%
Mega-Surf 101	Shrieve	Surfactant	Ethoxylated Alcohol	Proprietary	40.00%
Mega-Surf 102	Shrieve	Surfactant	Water	7732-18-5	55.00%
Mega-Surf 102	Shrieve	Surfactant	Propylene Glycol Ether	Proprietary	20.00%
Mega-Surf 102	Shrieve	Surfactant	Ethoxylated Alcohol	Proprietary	40.00%
MM-500	Binder Science	Friction Reducer	Trade Secret	Proprietary	50.00%
MM-500	Binder Science	Friction Reducer	Distillates, Petroleum, Hydrotreated Light	64742-46-7	50.00%
Myacide GA 25	Shrieve	Biocide	Water	7732-18-5	75.00%
Myacide GA 25	Shrieve	Biocide	Glutaraldehyde	111-30-8	25.00%
NanoActiv	Nissan Chemical America				
NBR-1	NexTier Completions	Gel Breaker	Ammonium Persulfate	7727-54-0	95.00%
NBR-15	NexTier Completions	Gel Breaker	Ammonium Persulfate	7727-54-0	100.00%
NBR-2	NexTier Completions	Breaker	Sodium persulfate	7775-27-1	100.00%
NBR-2	NexTier Completions	Breaker	Sodium Persulfate	7775-27-1	99.00%
NCI-18	NexTier Completions	Corrosion inhibitor	surfactant	Proprietary	7.50%
NCI-18	NexTier Completions	Corrosion inhibitor	Propargyl Alcohol	107-19-7	2.50%
NCI-18	NexTier Completions	Corrosion inhibitor	prop-2-yn-1-ol	107-19-7	5.00%
NCI-18	NexTier Completions	Corrosion inhibitor	Methanol	67-56-1	60.00%
NCI-18	NexTier Completions	Corrosion inhibitor	formic acid	64-18-6	15.00%
NCI-18	NexTier Completions Solutions	Corrosion inhibitor	quaternary ammonium	68909-18-2	15.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024

Department
Environmental Protection

NCI-24	NexTier Completions Solutions	Corrosion Inhibitor	alkyl pyridine benzyl quaternary ammonium chloride	68909-18-2	30.00%
NCI-24	NexTier Completions	Corrosion Inhibitor	Methanol	67-56-1	30.00%
NCI-24	NexTier Completions	Corrosion Inhibitor	Isopropanol	67-63-0	30.00%
NCI-24	NexTier Completions Solutions	Corrosion Inhibitor	Nonylphenol Polyethylene Glycol Ether	127087-87-0	20.00%
NCI-24	NexTier Completions	Corrosion Inhibitor	Acetic Acid	64-19-7	10.00%
NCI-24	NexTier Completions	Corrosion Inhibitor	2-Ethylhexanol	104-76-7	5.00%
NCS-15	NexTier Completions	Clay Control	Proprietary	Proprietary	100.00%
NE-1	NexTier Completions	Surfactant	Water	7732-18-5	70.00%
NE-1	NexTier Completions	Surfactant	Sodium Thiosulfate	7772-98-7	40.00%
NE-1	NexTier Completions	Surfactant	Proprietary	Proprietary	10.00%
NE-1	NexTier Completions	Surfactant	Proprietary	Proprietary	10.00%
NE-1	NexTier Completions	Surfactant	Proprietary	Proprietary	60.00%
NE-1	NexTier Completions	Surfactant	Methanol	67-56-1	60.00%
NE-227	ACE COMPLETIONS	NON-EMULSIFER	WATER	7732-18-5	90.00%
NE-227	ACE COMPLETIONS	NON-EMULSIFER	Proprietary	9003-11-6	3.00%
NE-227	ACE COMPLETIONS	NON-EMULSIFER	AMINE SULFONATE	26836-07-7	3.00%
NE-227	ACE COMPLETIONS	NON-EMULSIFER	ALCOHOL	68609-68-7	4.00%
NE-601	Economy Polymers	Non-emulsifying Agent	Water	7732-18-5	30.00%
NE-601	Economy Polymers	Non-emulsifying Agent	Triethylene Glycol	112-27-6	15.00%
NE-601	Economy Polymers	Non-emulsifying Agent	Methanol	64-17-5	50.00%
NE-601	Economy Polymers	Non-emulsifying Agent	Coconut Diethanolamide	68603-42-9	25.00%
Newcide 669	Newpark Drilling Fluids	Biocide	Other Components Below Reportable Levels		83.80%
Newcide 669	Newpark Drilling Fluids	Biocide	Glutaraldehyde	111-30-8	12.20%
Newcide 669	Newpark Drilling Fluids	Biocide	Ethanol	64-17-5	1.00%
Newcide 669	Newpark Drilling Fluids	Biocide	Didecyl dimethyl ammonium chloride	7173-51-5	1.75%
Newcide 669	Newpark Drilling Fluids	Biocide	alkyl dimethyl benzyl ammonium chloride (C 12-16)	68424-85-1	1.25%
NewStim Breaker MT	Newpark Drilling Fluids	Breaker	Quartz	14808-60-7	10.00%
NewStim Breaker MT	Newpark Drilling Fluids	Breaker	Cured Acrylic Resin	Proprietary	30.00%
NewStim Breaker MT	Newpark Drilling Fluids	Breaker	Ammonium Persulfate	7727-54-0	60.00%
NewStim CC 329	Newpark Drilling Fluids	Clay Control	Modified Polysaccharide	Proprietary	100.00%
NewStim SI 285	Newpark Drilling Fluids	Scale Inhibitor	TSCA, DSL, EU, IECSC, AICS, NZIoC Inventories	Proprietary	1.00%
NewStim SI 285	Newpark Drilling Fluids	Scale Inhibitor	Sodium Phosphate	7601-54-9	0.15%
NewStim SI 285	Newpark Drilling Fluids	Scale Inhibitor	Sodium Chloride	7647-14-5	1.35%
NFR-45	NexTier Completions Solutions	Friction Reducer	Distillates (Petroleum), Hydrotreated Light	64742-47-8	30.00%
NFR-45	NexTier Completions Solutions	Friction Reducer	Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00%

RECEIVED
Office of Oil and Gas

OCT 9 2024

environmental protection

NFR-50	NexTier Completions Solutions	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8	20.00%
NFR-50	NexTier Completions	Friction Reducer	alcohols, C12-16, ethoxylated	68551-12-2	5.00%
NFR-53	NexTier Completions	Friction Reducer	Proprietary Surfactant Blend	Proprietary	5.00%
NFR-53	NexTier Completions	Friction Reducer	Proprietary Polymer	Proprietary	30.00%
NFR-53	NexTier Completions Solutions	Friction Reducer	Distillates, Petroleum, Hydrotreated Light	64742-47-8	30.00%
NFR-54	NexTier Completions	Friction Reducer	Water	7732-18-5	60.00%
NFR-54	NexTier Completions	Friction Reducer	oleic acid diethanolamide	93-83-4	1.50%
NFR-54	NexTier Completions Solutions	Friction Reducer	Distillates, Petroleum, Hydrotreated Light	64742-47-8	20.00%
NFR-54	NexTier Completions	Friction Reducer	Ammonium Chloride	12125-02-9	2.00%
NFR-54	NexTier Completions	Friction Reducer	alcohols, C12-16, ethoxylated	68551-12-2	1.50%
NFR-56	NexTier Completions	Friction Reducer	Water	7732-18-5	50.00%
NFR-56	NexTier Completions	Friction Reducer	Chemplex-Polymer-00019	Proprietary	20.00%
NFR-56	NexTier Completions Solutions	Friction Reducer	Petroleum distillate, Hydrotreated Light	64742-47-8	20.00%
NFR-56	NexTier Completions	Friction Reducer	oleic acid diethanolamide	93-83-4	2.00%
NFR-56	NexTier Completions	Friction Reducer	alcohols, C 12-16,	68551-12-2	2.00%
NFR-58	NexTier Completions	Friction Reducer	Water	7732-18-5	11.00%
NFR-58	NexTier Completions	Friction Reducer	Sorbitan Monooleate	1338-43-8	1.00%
NFR-58	NexTier Completions	Friction Reducer	Sodium Thiosulfate	7772-98-7	40.00%
NFR-58	NexTier Completions	Friction Reducer	Sodium Chloride	7647-14-5	5.00%
NFR-58	NexTier Completions	Friction Reducer	Polyethylene-Glycol	25322-68-3	1.00%
NFR-58	NexTier Completions	Friction Reducer	Dodecylbenzenesulfonic acid	27176-87-0	1.00%
NFR-58	NexTier Completions Solutions	Friction Reducer	Distillates (Petroleum), Hydrotreated Light	64742-47-8	20.00%
NFR-58	NexTier Completions	Friction Reducer	Alkoxylate	9005-65-6	1.00%
NFR-58	NexTier Completions	Friction Reducer	Acrylate polymer	25085-02-3	20.00%
NFR-64	NexTier Completions Solutions	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8	30.00%
NFR-64	NexTier Completions	Friction Reducer	Proprietary Surfactant Blend	Proprietary	10.00%
NFR-64	NexTier Completions	Friction Reducer	Water	7732-18-5	60.00%
NFR-68X	NexTier Completions	Friction Reducer	Water	7732-18-5	60.00%
NFR-68X	NexTier Completions	Friction Reducer	Sodium Thiosulfate	7772-98-7	40.00%
NFR-68X	NexTier Completions	Friction Reducer	Sodium Chloride	7647-14-5	5.00%
NFR-68X	NexTier Completions	Friction Reducer	Heavy Aromatic Naphtha	64742-94-5	1.00%
NFR-68X	NexTier Completions	Friction Reducer	Dodecylbenzenesulfonic acid	27176-87-0	1.00%
NFR-68X	NexTier Completions Solutions	Friction Reducer	Distillates (Petroleum), Hydrotreated Light	64742-47-8	30.00%
NFR-68X	NexTier Completions	Friction Reducer	Alkoxylate	9005-65-6	1.00%
NFR-68X	NexTier Completions	Friction Reducer	Acrylate polymer	25085-02-3	30.00%
NGA-10D	NexTier Completions	Gelling Agent	Guar gum	9000-30-0	95.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024
WV Department of
Environmental Protection

NGA-10D	NexTier Completions	Gelling Agent	Guar Gum	9000-30-0	95.00%
NGA-9D	NexTier Completions	Gelling Agent	Guar Gum	9000-30-0	100.00%
NHV-33	NexTier Completions Solutions	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8	45.00%
NHV-33	NexTier Completions Solutions	Friction Reducer	Polyoxyethylene Tridecyl (Branched) Alcohol	69011-36-5	3.00%
NHV-33	NexTier Completions	Friction Reducer	Water	7732-18-5	52.00%
NHV-37	NexTier Completions	High Viscosity Friction	Silica, crystalline quartz	14808-60-7	0.10%
NHV-37	NexTier Completions	High Viscosity Friction	Mineral Oil	Proprietary	70.00%
NHV-37	NexTier Completions	High Viscosity Friction	Ethoxylated Alcohol	Proprietary	10.00%
NHV-49	NexTier Completions	Friction Reducer	Proprietary Petroleum	Proprietary	60.00%
NHV-49	NexTier Completions	Friction Reducer	Proprietary Fatty Acid Ester	Proprietary	5.00%
NHV-50	NexTier Completions Solutions	Friction Reducer	Distillates (Petroleum), Hydrotreated Light	64742-47-8	30.00%
NHV-50	NexTier Completions	Friction Reducer	alcohols, C12-16, ethoxylated	68551-12-2	2.00%
NHV-53	NexTier Completions	Friction Reducer	Water	7732-18-5	70.00%
NHV-53	NexTier Completions	Friction Reducer	Sodium Thiosulfate	7772-98-7	40.00%
NHV-53	NexTier Completions Solutions	Friction Reducer	Sodium acrylate acrylamide polymer	Proprietary	30.00%
NHV-53	NexTier Completions	Friction Reducer	Proprietary Surfactant Blend	Proprietary	10.00%
NHV-53	NexTier Completions	Friction Reducer	Oil	Proprietary	30.00%
NHV-75	NexTier Completions	Friction Reducer	Water	7732-18-5	21.00%
NHV-75	NexTier Completions	Friction Reducer	Sodium Chloride	7647-14-5	5.00%
NHV-75	NexTier Completions	Friction Reducer	Poly(ethylene glycol)	9004-96-0	4.00%
NHV-75	NexTier Completions Solutions	Friction Reducer	Poly(acrylamide-co-sodium acrylate)	25085-02-3	30.00%
NHV-75	NexTier Completions	Friction Reducer	Heavy aromatic Naptha	64742-94-5	5.00%
NHV-75	NexTier Completions Solutions	Friction Reducer	Distillates (Petroleum), Hydrotreated Light	64742-47-8	20.00%
NHV-75	NexTier Completions	Friction Reducer	DDBSA	27176-87-0	10.00%
NHV-75	NexTier Completions	Friction Reducer	Alkoxylate	9005-65-6	5.00%
NHV-83	NexTier Completions	Friction Reducer	Water	7732-18-5	76.00%
NHV-83	NexTier Completions	Friction Reducer	Ethoxylated castor oil	61791-12-6	1.00%
NHV-83	NexTier Completions Solutions	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8	20.00%
NHV-83	NexTier Completions	Friction Reducer	ammonium chloride	12125-02-9	3.00%
NIC-20	NexTier Completions	Iron control	acetic acid	64-19-7	50.00%
NIC-20	NexTier Completions	Iron control	Acetic Acid	64-19-7	55.00%
NIC-21	NexTier Completions	Iron control	citric acid	77-92-9	30.00%
NI-NE 200	Dakota Chemical	Non-emulsifying Agent	Water	7732-18-5	100.00%
NI-NE 200	Dakota Chemical	Non-emulsifying Agent	Sodium carbonate	497-19-8	12.00%
NI-NE 200	Dakota Chemical	Non-emulsifying Agent	(R)-p-mentha-1, 8-diene	5989-27-5	2.50%
nonActive Enhanced Bio-Lift	Iron Horse Chemicals	Surfactant	Proprietary	Proprietary	5.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024
WV Department of
Environmental Protection

nonActive Enhanced Bio-Lift	Iron Horse Chemicals	Collodial Partical Dispersion	Proprietary	Proprietary	5.00%
NPM-14	NexTier Completions	Buffering Agent	Water	7732-18-5	75.00%
NPM-14	NexTier Completions	Buffering Agent	Sodium Hydroxide	1310-73-2	25.00%
NPM-4	NexTier Completions	Buffering Agent	Acetic Acid	64-19-7	60.00%
NRL-1W	NexTier Completions	Surfactant	Trade Secret	Proprietary	25.00%
NRL-1W	NexTier Completions	Surfactant	Trade Secret	Proprietary	25.00%
NRL-1W	NexTier Completions	Surfactant	Methanol	67-56-1	30.00%
NRL-1W	NexTier Completions	Surfactant	Methanol	67-56-1	30.00%
NSA-3	NexTier Completions	Acid	Water	7732-18-5	17.90%
NSA-3	NexTier Completions	Acid	Sodium Thiosulfate	7772-98-7	40.00%
NSA-3	NexTier Completions	Acid	Sodium Chloride	7647-14-5	0.10%
NSA-3	NexTier Completions	Acid	Sodium Benzoate	532-32-1	0.10%
NSA-3	NexTier Completions	Acid	Proprietary Surfactant	Proprietary	0.10%
NSA-3	NexTier Completions	Acid	Proprietary Base	Proprietary	10.00%
NSA-3	NexTier Completions	Acid	Proprietary Acid	Proprietary	30.00%
NSA-3	NexTier Completions	Acid	Potassium Iodide	7681-11-0	0.10%
NSA-3	NexTier Completions	Acid	Methanol	67-56-1	0.10%
NSA-3	NexTier Completions	Acid	Methanesulfonic Acid	75-75-2	0.10%
NSA-3	NexTier Completions	Acid	Inhibitor	Proprietary	0.10%
NSA-3	NexTier Completions	Acid	Ethyl acetate	141-78-6	0.10%
NSA-3	NexTier Completions	Acid	Ethanol	64-17-5	0.10%
NSA-3	NexTier Completions	Acid	Cocamidopropyl betaine	61789-40-0	0.10%
NSA-3	NexTier Completions Solutions	Acid	Alcohols, C9-11-iso-, C10-rich, ethoxylated	68002-97-1	0.10%
NSA-3	NexTier Completions Solutions	Acid	2-Propyn-1-ol compound with methyloxirane	38172-91-7	1.00%
NSI-32	NexTier Completions	Scale Inhibitor	Water	7732-18-5	84.00%
NSI-32	NexTier Completions	Scale Inhibitor	Proprietary Scale Inhibitor	Proprietary	15.00%
NSI-32	NexTier Completions	Scale Inhibitor	Acidity Regulator	Proprietary	1.00%
NSI-38	NexTier Completions Solutions	Scale Inhibitor	hexamethylene triamine penta (methylene phosonic acid)	34690-00-1	10.00%
NSI-38	NexTier Completions	Scale Inhibitor	Water	7732-18-5	90.00%
NSI-38W	NexTier Completions Solutions	Scale Inhibitor	hexamethylene triamine penta (methylene phosonic acid)	34690-00-1	10.00%
NSI-38W	NexTier Completions	Scale Inhibitor	Water	7732-18-5	90.00%
NSU-17	NexTier Completions	Surfactant	Water	7732-18-5	70.00%
NSU-17	NexTier Completions Solutions	Surfactant	Ethylene/propylene Oxide Polymer	Proprietary	10.00%
NSU-17	NexTier Completions	Surfactant	Amine Sulfonate	26836-07-7	10.00%
NSU-17	NexTier Completions Solutions	Surfactant	Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00%
NSU-17	NexTier Completions	Surfactant	Alcohol	68609-68-7	5.00%
NSU-17W	NexTier Completions	Surfactant	Proprietary Surfactant Blend	Proprietary	10.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024
WV Department of
Environmental Protection

NSU-17W	NexTier Completions	Surfactant	Methanol	67-56-1	40.00%
NSU-17W	NexTier Completions	Surfactant	Isotridecanol, ethoxylated	9043-30-5	5.00%
NSU-17W	NexTier Completions Solutions	Surfactant	ethylene propylene oxide polymer	Proprietary	10.00%
NXL-31	NexTier Completions Solutions	Borate Crosslinker	Potassium Tetraborate Tetrahydrate	12045-78-2	20.00%
NXL-31	NexTier Completions	Borate Crosslinker	Potassium Hydroxide	1310-58-3	7.50%
PeroxyMax	Clean Chemistry	Biocide	Water	7732-18-5	94.20%
PeroxyMAX	CLEAN CHEMISTRY	BIOCIDE	WATER	7732-18-5	94.20%
PeroxyMax	Clean Chemistry	Biocide	Sodium Peracetate	64057-57-4	5.80%
PeroxyMAX	CLEAN CHEMISTRY	BIOCIDE	Sodium Peracetate	64057-57-4	5.80%
Plexaid 680	Chemplex	Scale Inhibitor	Organic Phosphoric Acid	Proprietary	20.00%
Plexaid 680	Chemplex	Scale Inhibitor	Methanol	67-56-1	10.00%
Plexaid 870	Chemplex	Defoamer	Methanol	67-56-1	50.00%
Plexbor 101	Chemplex	Instant Crosslinker	Potassium Metaborate	13709-94-9	25.00%
Plexbor 101	Chemplex	Instant Crosslinker	Potassium Hydroxide	1310-58-3	3.15%
Plexbor 101	Chemplex	Instant Crosslinker	Ethylene Glycol	107-21-1	10.00%
Plexbor 101	Chemplex	Instant Crosslinker	Diethylene glycol	111-46-6	50.00%
Plexcide 15g	Chemplex	Biocide	Quarternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1	3.00%
Plexcide 15g	Chemplex	Biocide	Glutaraldehyde	111-30-8	20.00%
Plexcide 15g	Chemplex	Biocide	Didecyldimethylammonium Chloride	7173-51-5	3.00%
Plexcide 20W	NexTier Completions	Biocide	1,2-Ethanediol	107-21-1	50.00%
Plexcide 20W	NexTier Completions Solutions	Biocide	Phosphonium, tetrakis(hydroxymethyl)-,sulfate (2:1)	55566-30-8	20.00%
Plexcide 20W	NexTier Completions Solutions	Biocide	quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	5.00%
Plexgel 907L-EB	Chemplex	Gel	Guar Gum	9000-30-0	55.00%
Plexgel 907L-EB	Chemplex	Gel	Distillates, Petroleum, Hydrotreated Light	64742-47-8	35.00%
Plexgel Breaker 10L	Chemplex	Breaker	NA		
Plexslick 953	Chemplex	Friction Reducer	Distillates, Petroleum, Hydrotreated Light	64742-47-8	20.00%
Plexsurf 215 ES	Chemplex	Surfactant	Methanol	67-56-1	10.00%
Plexsurf 215 ES	Chemplex	Surfactant	Alkyl (C9-11) alcohol, ethoxylated	68439-46-3	5.00%
Plexsurf 215 ES	Chemplex	Surfactant	Alcohols, C12-13,	66455-14-9	1.00%
PolyBreak 5	DCS	Breaker	Hydrogen Peroxide	7722-84-1	20.00%

Polyglide Xcel-250	PFP Industries	Friction Reducer	Petroleum distillates, hydrotreated light	64742-47-8	70.00%
Produced Water	Operator	Carrier Fluid	Water	7732-18-5	90.00%
Produced Water	Operator	Carrier Fluid	strontium chloride	10476-85-4	2.00%
Produced Water	Operator	Carrier Fluid	sodium chloride	7647-14-5	5.00%
Produced Water	Operator	Carrier Fluid	calcium chloride	10043-52-4	5.00%
Produced Water	Operator	Carrier Fluid	benzene	71-43-2	0.10%
Produced Water	Operator	Carrier Fluid	barium chloride	10326-27-9	2.00%
Product 6191	Nalco	Surfactant	Branched Alcohol	Proprietary	30.00%
Propel SSP	Fairmount Santrol	Propping Agent	Water-Soluble Polymer	Proprietary	2.00%
Propel SSP	Fairmount Santrol	Propping Agent	Crystalline Silica, Quartz	14808-60-7	98.00%
Proppant (Ceramic)	NexTier Completions	Propping Agent	Mullite	1302-93-8	46.00%
Proppant (Ceramic)	NexTier Completions	Propping Agent	Corundum	1302-74-5	60.00%
Proppant (Sand Operator)	Operator	Propping Agent	Crystalline Silica, quartz	14808-60-7	100.00%
Proppant (Sand)	NexTier Completions	Propping Agent	Crystalline Silica, quartz	14808-60-7	100.00%
PSI	Economy Polymers	Breaker	Ammonium Persulfate	7727-54-0	100.00%
PureCide E	Pureline	Biocide	Water	7732-18-5	59.00%
PureCide E	Pureline	Biocide	Sodium Sulfate	7757-82-6	2.00%
PureCide E	Pureline	Biocide	Sodium Chlorite	7758-19-2	34.00%
PureCide E	Pureline	Biocide	Sodium Chloride	7647-14-5	6.00%
PureCide E	Pureline	Biocide	Sodium Chlorate	7775-09-9	3.00%
ReDirect-250	NexTier Completions	Diverter	Proprietary Blend	Proprietary	100.00%
ReDirect-250CFL	NexTier Completions	Diverter	Trade Secret	Proprietary	60.00%
ReDirect-250CFL	NexTier Completions	Diverter	Trade Secret	Proprietary	40.00%
ReDirect-250CFL	NexTier Completions	Diverter	Trade Secret	Proprietary	10.00%
ReDirect-250CFL	NexTier Completions	Diverter	Polyactide resin	9051-89-2	30.00%
ReDirect-500	NexTier Completions	Diverter	Trade Secret	Proprietary	100.00%
RSA-2	NexTier Completions	Acid	Patented Safe Acid	Proprietary	100.00%
S-212	Rockwater	Gelling Agent	Guar Gum	9000-30-0	40.00%
S-212	Rockwater	Gelling Agent	Distillates, Petroleum, Hydrotreated Light	64742-47-8	60.00%
Sabrechlor 25	Sabre	Biocide	Water	7732-18-5	75.00%
Sabrechlor 25	Sabre	Biocide	Sodium Chlorite	7758-19-2	30.00%
Scal Hib PE-18W	NexTier Completions	Scale Inhibitor	Diethylene glycol	111-46-6	30.00%
Scal Hib PE-18W	NexTier Completions	Scale Inhibitor	WST-Scale Inhibitor-00014	Proprietary	30.00%
Scal Hib PE-18W	NexTier Completions	Scale Inhibitor	Ethylene glycol	107-21-1	20.00%
SCAL18415A	ChampionX	Scale Inhibitor	Monoethanolamine	Proprietary	15.00%
SCAL18415A	ChampionX	Scale Inhibitor	Methanol	67-56-1	7.50%
SCAL18415A	ChampionX	Scale Inhibitor	Ammonium Chloride	12125-02-9	250.00%
SCAL18415A	ChampionX	Scale Inhibitor	Amine Phosphonate 7, Ethanolamine Salt	Proprietary	7.50%
SCAL18415A	ChampionX	Scale Inhibitor	amine phosphonate	Proprietary	15.00%
Scale 803	Iron Horse Chemicals	Scale Inhibitor	Proprietary	Proprietary	10.00%

RECEIVED
Office of Oil and Gas
OCT 9 2024
Department of
Environmental Protection

ScaleBlok 10	DCS	Scale Inhibitor	Proprietary non-hazardous polymers	Proprietary	25.00%
ScaleGuard II	Carbo	Scale Inhibitor	Sodium Hydroxide	1310-73-2	5.00%
ScaleGuard II	Carbo	Scale Inhibitor	Semi-Permeable Coating	Proprietary	5.00%
ScaleGuard II	Carbo	Scale Inhibitor	Diethylenetriaminepenta (methylenephosphonic acid) (DTPMP)	15827-60-8	5.00%
ScaleGuard II	Carbo	Scale Inhibitor	Ceramic Materials and Wares, Chemicals	66402-68-4	90.00%
ScaleGuard II	Carbo	Scale Inhibitor	Calcium Chloride	10043-52-4	2.00%
Scalesorb 12	Baker Hughes	Scale Inhibitor	Organophosphorous salt	Proprietary	65.00%
Scalesorb 12	Baker Hughes	Scale Inhibitor	Diatomaceous earth, calcined	91053-39-3	45.00%
Scalesorb 12	Baker Hughes	Scale Inhibitor	Crystalline silica: Quartz	14808-60-7	1.00%
Scalesorb 3	Baker Hughes	Scale Inhibitor	Phosphorous acid	Proprietary	1.00%
Scalesorb 3	Baker Hughes	Scale Inhibitor	Diatomaceous earth, calcined	91053-39-3	69.80%
Scalesorb 3	Baker Hughes	Scale Inhibitor	crystalline silica	14808-60-7	1.00%
Scalesorb 3	Baker Hughes	Scale Inhibitor	Almino alkyl phosphonic	Proprietary	30.00%
Scalesorb 4	Baker Hughes	Scale Inhibitor	Polymer Blend	Proprietary	40.00%
Scalesorb 4	Baker Hughes	Scale Inhibitor	Diatomaceous earth, calcined	91053-39-3	60.00%
Scalesorb 6	Baker Hughes	Scale Inhibitor	Organophosphonic Acid Salt	Proprietary	40.00%
Scalesorb 6	Baker Hughes	Scale Inhibitor	Diatomaceous earth, calcined	91053-39-3	70.00%
Scalesorb 6	Baker Hughes	Scale Inhibitor	Crystalline silica: Quartz	14808-60-7	1.00%
Scalesorb 7	Baker Hughes	Scale Inhibitor	Organophosphorous salt	Proprietary	40.00%
Scalesorb 7	Baker Hughes	Scale Inhibitor	Diatomaceous earth, calcined	91053-39-3	65.00%
Scalesorb 7	Baker Hughes	Scale Inhibitor	Crystalline silica: Quartz	14808-60-7	1.00%
Scaletrol 356	Baker Hughes	Scale Inhibitor	Methanol, Organophosphorous salt	67-56-1	10.00%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Ethylene Glycol	000107-21-1	45.00%
Scaletrol 720	Baker Hughes	Scale Inhibitor	Diethylene glycol	000111-46-6	5.00%
Scaletrol 767W	Baker Hughes	Scale Inhibitor	Organic Phosphonae	Proprietary	30.00%
Scaletrol 767W	Baker Hughes	Scale Inhibitor	Methanol	67-56-1	30.00%
SCW 358	Baker Hughes	Scale Inhibitor	Organic phosphonate	Trade Secret	30.00%
SCW 358	Baker Hughes	Scale Inhibitor	Hydrochloric acid	7647-01-0	10.00%
SCW 6002	Baker Hughes	Scale Inhibitor	Organo Phosphorus	Proprietary	5.00%
Shrieve-Cide 423	Shrieve	Biocide	Water	7732-18-5	72.00%
Shrieve-Cide 423	Shrieve	Biocide	Sodium Hydroxide	1310-73-2	4.00%
Shrieve-Cide 423	Shrieve	Biocide	Dazomat	533-74-4	24.00%
SI-202F	Astro-Chem Lab, Inc	Iron control	Water	7732-18-5	50.00%
SI-202F	Astro-Chem Lab, Inc	Iron control	Citric Acid	77-92-9	50.00%
SI-208	WadeCO Specialties	Scale Inhibitor			100.00%

RECEIVED
Office of Oil and Gas

OCT 9 2024

WV Department of
Environmental Protection

SI-219	WadeCo Specialties	Scale Inhibitor	THIS material is not hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)	Proprietary	100.00%
SI-316	Frac-Chem	Scale Inhibitor	Water	7732-18-5	90.00%
SI-316	Frac-Chem	Scale Inhibitor	THIS material is not hazardous under the criteria of the federal OSHA Hazard Communication Standard (29 CFR 1910.1200)	Proprietary	10.00%
SI-4010	Rockwater	Scale Inhibitor	Proprietary	Proprietary	100.00%
SmartSurf 533	Iron Horse Chemicals	Surfactant	Quaternary ammonium compounds, benzyl-C12-16 alkyl dimethyl, chlorides	68424-85-1	8.20%
SmartSurf 533	Iron Horse Chemicals	Surfactant	Methanol	67-56-1	1.40%
SmartSurf 533	Iron Horse Chemicals	Surfactant	Diethanolamine	111-42-2	1.30%
Sodium Hypochlorite 12.5%	Sabre	Biocide	Water	7732-18-5	87.50%
Sodium Hypochlorite 12.5%	Sabre	Biocide	Sodium Hypochlorite	7381-52-9	12.50%
Sodium Hypochlorite 12%	Baker Hughes	Biocide	Water	7732-18-5	85.00%
Sodium Hypochlorite 12%	Baker Hughes	Biocide	Sodium Hypochlorite	7681-52-9	15.00%
StimOil ENX	Flotek	Surfactant	Isopropyl alcohol	67-63-0	30.00%
StimOil ENX	Flotek	Surfactant	Citrus Terpenes	68647-72-3	30.00%
StimOil Q906	Flotek	Surfactant	Terpene Hydrocarbons	68956-56-9	0.55%
StimOil Q906	Flotek	Surfactant	Octyl Alcohol	68526-83-0	3.00%
StimOil Q906	Flotek	Surfactant	Isopropyl Alcohol	67-63-0	87.50%
StimOil Q906	Flotek	Surfactant	Hydrocarbons C13-C23 n-alkanes isoalkanes cyclics <0.03% aromatics	Proprietary	3.00%
StimOil Q906	Flotek	Surfactant	Anionic Surfactant	Proprietary	3.00%
Stimsolve FR 7205	Chemplex	Friction Reducer	oleic acid diethanolamide	93-83-4	5.00%
Stimsolve FR 7205	Chemplex	Friction Reducer	Distillates (Petroleum), Hydrotreated Light	64742-47-8	20.00%
Stimsolve FR 7205	Chemplex	Friction Reducer	ammonium chloride	12125-02-9	5.00%
StimSTREAM SC 405	Chemstream	Scale Control	butanetricarboxylic acid (DTPC)	37971-36-1	10.00%
StimSTREAM SC 405	Chemstream	Scale Control	Citric Acid	77-92-9	10.00%
StimSTREAM SC 405	Chemstream	Scale Control	Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00%
StimSTREAM SC 405	Chemstream	Scale Control	Water	7732-18-5	70.00%
Super LC	Fairmount Santrol	Propping Agent	Phenol-formaldehyde Novolak Resin	9003-35-4	5.00%
Super LC	Fairmount Santrol	Propping Agent	Crystalline Silica (quartz)	14808-60-7	99.50%

RECEIVED
Office of Oil and Gas
OCT 9 2024
WV Department of
Environmental Protection

TechlubeQ	Conquest	Lubricant	This material is not hazardous under the criteria of the federal OSHA Hazard Communication Standard 29CFR 1910.1200	Proprietary	100.00%
Technihib 604W	Baker Hughes	Oxygen Scavenger	Water	7732-18-5	43.00%
Technihib 604W	Baker Hughes	Oxygen Scavenger	Nickel Chelate Catalyst	Proprietary	3.00%
Technihib 604W	Baker Hughes	Oxygen Scavenger	Ammonium Bisulfate	010192-30-0	54.00%
Technihib 767W	Baker Hughes	Scale Inhibitor	Water	7732-18-5	65.00%
Technihib 767W	Baker Hughes	Scale Inhibitor	Ethylene Glycol	107-21-1	30.00%
Technihib 767W	Baker Hughes	Scale Inhibitor	Calcium Chloride	10043-52-4	5.00%
Tetra Scale 15-101	Solnexus	Scale Inhibitor	Water	7732-18-5	95.00%
Tetra Scale 15-101	Solnexus	Scale Inhibitor	Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	5.00%
Tolcide TP5	NexTier Completions	Biocide	Water	7732-18-5	95.00%
Tolcide TP5	NexTier Completions Solutions	Biocide	Tributyl Tetradecyl Phosphonium Chloride	81741-28-8	7.50%
TSI-2120	Clean Chemistry	Scale Inhibitor	Polycarboxylic Acid Mixture	Proprietary	60.00%
ULT130	A. Schulman	Diverter	Trade Secret	Proprietary	100.00%
VEFR-2005	Rockwater	Friction Reducer	Surfactant Blend	Proprietary	10.00%
VEFR-2005	Rockwater	Friction Reducer	Other Components Below Reportable Levels		60.00%
VEFR-2005	Rockwater	Friction Reducer	Mineral Oil	Proprietary	30.00%
V-Scale 400	Valence Chemicals	Scale Inhibitor	Trade Secret	Proprietary	40.00%
WSI3730	Jacam Chemicals	Scale Inhibitor	Proprietary	Proprietary	10.00%
WSI3730	Jacam Chemicals	Scale Inhibitor	Methanol	67-56-1	20.00%
WSI3730	Jacam Chemicals	Scale Inhibitor	Isopropanol	67-63-0	40.00%
WSI3730W	Jacam Chemicals	Scale Inhibitor	Proprietary	Proprietary	10.00%
WSI3730W	Jacam Chemicals	Scale Inhibitor	Methanol	67-56-1	20.00%
WSI3730W	Jacam Chemicals	Scale Inhibitor	Isopropanol	67-63-0	40.00%
XC750	Baker Hughes	Biocide	Tetrakis (hydroxymethyl) phosphonium sulfate	55566-30-8	60.00%
XC750	Baker Hughes	Biocide	Phosphaonates	Proprietary	40.00%
X-Cide 750	Baker Hughes	Biocide	Water	7732-18-5	40.00%
X-Cide 750	Baker Hughes	Biocide	Tetrakis(Hydroxymethyl)Phosphonium Sulfate	55566-30-8	60.00%
X-Corr LT	Nalco	Corrosion Inhibitor	Isopropyl Alcohol	67-63-0	60.00%
X-Corr LT	Nalco	Corrosion Inhibitor	Fatty Alcohol Ethoxylate	Proprietary	30.00%
X-Corr LT	Nalco	Corrosion Inhibitor	Ethoxylated Alcohol	Proprietary	10.00%
TruSlich 18C	Pad2Pad Logistics	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00%
TruSlich 18C	Pad2Pad Logistics	Friction Reducer	Hydrotreated Light Distillate (petroleum)	9003-29-6	25.00%
TruSlich 18C	Pad2Pad Logistics	Friction Reducer	Hydrotreated Light Distillate (petroleum)	68213-23-0	25.00%

MSB-12	Pad2Pad Logistics	Biocide	Glutaraldehyde	111-30-8	20.00%
MSB-12	Pad2Pad Logistics	Biocide	Didecyl dimethyl ammonium chloride	7173-51-5	3.00%
MSB-12	Pad2Pad Logistics	Biocide	Quaternary Ammonium Compounds	68424-85-1	3.00%
MSB-12	Pad2Pad Logistics	Biocide	Ethanol	64-17-5	1.50%
MSB-12	Pad2Pad Logistics	Biocide	Non-hazardous substances	Proprietary	80.00%
SI 9125	Pad2Pad Logistics	Scale Inhibitor			
SI 9125	Pad2Pad Logistics	Scale Inhibitor			
SI 9125	Pad2Pad Logistics	Scale Inhibitor			
SI 9125	Pad2Pad Logistics	Scale Inhibitor			

RECEIVED
Office of Oil and Gas
OCT 9 2024
WV Department of
Environmental Protection

FracFocus Proprietary Additives Contact Information

Company	First Name	Last Name	Email	Phone
A. Schulman			amer.regulatory.requests@aschulman.com	800-424-9300
Ace Completions	Jeff	Louis	jlouis@acecompletions.com	713-703-2172
Baker Hughes	Jana	Phillips	Jana.phillips@bakerhughes.com	701-420-8015
Binder Science	Tom	Wentzler	twentzler@binderscience.com	281-419-9047
BlenTech	George	Hahn	jr@blentech.org	281-932-7795
ChemEOR	Patrick	Shuler	patrick.shuler@chemeor.com	909-632-8639
ChemPlex	Edward	Vinson	edward.vinson@solvay.com	701-764-7158
Clean Chemistry	Jeff	Repak	j.repak@cleanchemi.com	469-438-9085
Conquest Completions				1-800-424-9300
Crudechem	Joe	Schmoe	JoeShmoe@Crudechem.com	402-123-4567
Dakota Chemicals	Jacob	Cole	jacob.dakotachemical@gmail.com	830-446-1746
DCS	Wayne	Cutrer	waynecutrer@gmail.com	214-945-5910
DiverterPlus, LLC				833-388-7587
Economy Polymers	Samuel	Stratton	sam@economypolymers.com	713-723-8416
Endura Products Corp	Vince	Vigar	vvigar@enduraproductscorp.com	432-556-2275
Fairmount Santrol	Kurt	Kaiser	Kurt.Kaiser@fairmountsantrol.com	608-635-5833
Flotek	Alora	Breeze	abreeze@flotekind.com	580-658-6608
Innospec Oilfield Services			sdsinfo@innospecinc.com	713-936-4340
Iron Horse Chemicals	Jesse	Schimetz	Jesse@ironhorsechemicals.com	406-853-4097
Multi-Chem	Sarah	Wilson	sarah.wilson@halliburton.com	575-513-8466
Nalco Champion	Gary	Galford	glgalford@nalco.com	814-244-3973
NexTier Completions Solutions	Bethicia	Prasek	Bethicia.Prasek@NexTierOFS.com	281-216-4446
Nissan Chemical America Coporation			www.nissanchem-usa.com	1-800-424-9300
Performance Chemical Company	Keenan	Calt	keenancalt@per-chem.com	432-332-3059
PFP Industries	Rachel	Campos	rachel.campos@pfpindustries.com	281-574-8812
RockWater	Thomas	Roland	Troland@RockwaterEnergy.com	432-560-5617
Shrieve	Audris	King	aking@shrieve.com	281-367-4226
Universal Pressure Pumping	Joe	Pinkhouse	joe.pinkhouse@patenergy.com	814-373-3237
Valence Chemicals	Adrian	Druba	adruba@valencechems.com	682-561-7016
WadeCo Specialties				432-563-4340
CHAMPIONX	Mark	Hellig	marc.hellig@championx.com	713-410-2828
Jacam Chemicals	Jacam	Chemicals	SDS@jacam.com	620-278-3355

RECEIVED
Office of Oil and Gas

OCT 9 2024

Department of
Environmental Protection

Additive	Specific Gravity	Column1
10% HCl	1.05	
100 Mesh	2.65	
15% HCl	1.08	
15WF766	1.12	
20% KCl	1.13	
20/40 Mesh	2.65	
2000 PTW	1.30	
25% Sodium Hydroxide	1.27	
28% HCl	1.14	
30/50 Mesh	2.65	
30/50 RCS	2.50	
40/140 Mesh	2.66	
40/70 Mesh	2.65	
40/70 Mesh	2.65	
40/70 Mesh RCS	2.50	
7.5% HCl	1.04	
AC-100	0.96	
AceFlow 3300	0.98	
ACI-100	1.00	
ADM-190	0.94	
AIC100D	1.54	
Alpha 1427	1.05	
Alpha 452	1.17	
Ammonium Persulfate	1.98	
Antimicrobial 220	1.09	
AP Break	1.00	
AP Scale 2S	0.90	
AP Surf 2	0.94	
Bactron K-31	1.08	
Bellacide 300	0.94	
Bellacide 300W	0.94	
Bio Exp 13-59	1.25	
Bio-Add 1200	1.07	
BIO-ADD 4576	1.25	
Bio-Add 807	1.08	
Bio-Add 951	1.10	
BioBalls MR	1.18	
Bioban 5:10	1.02	
Bio-Break 1001	1.72	
Bio-Break 1002	1.98	
Bio-Break 949	0.93	
BIOC11139A	1.01	
BIO-COR 1011	0.89	
Bio-Cross 109	1.16	
BIO-CROSS 109M	1.11	
Bio-Exp 13-22	1.31	
Bio-Exp 13-63	2.50	
Bio-Exp 14-23	1.15	

RECEIVED
Oil and Gas
OCT 9 2024
Department of
Environmental Protection

12/13/2024

Bio-Exp 14-8	1.05
Bionix GA1203	1.02
BioRCK-1038	1.00
BIO-SCALE 1001	1.13
Bonderite	0.96
BPC 68945	1.22
BR1	3.34
Brackish Water	1.01
Brine Water	1.15
BUSAN 1058	1.15
CCT SP Break 300	1.25
Chlorine Dioxide	1.20
Chlorine Dioxide Solution < 5000 ppm	1.00
Citric Acid	1.24
Clayplex 650	1.15
Clayseal 70	1.07
Clearal 267	1.09
Clearal 270a	1.06
CLO2	1.00
CoolSet	2.50
CorrSorb 3600	1.00
CRS 1080G	0.98
CS 4200	1.04
DDAC	0.94
Div. + 1357	1.25
Div. + 1370	1.25
DMUL 150	1.00
Econo DF-1	1.00
Econo-398	0.75
Econo-B648L	1.16
EconoCap-BR	2.50
EconoCap-HP	1.72
Econo-CI200	0.82
Econo-CS35	1.27
Econo-FR300	1.08
Econo-FR400	1.08
Econo-Max	1.06
Ecopol Breaker-BRL	1.15
Ecopol DBXL-90	1.16
Ecopol Gelbreak-EL2X	1.13
Ecopol-2000LMS	1.05
Ecopol-EC101	1.25
Ecopol-FEAC	1.14
Ecopol-HTSL	1.31
Ecopol-ME100	0.96
Ecopol-NE601	0.93
Ecopol-SI2000	1.08
EnviroSurf 6	0.96
FE-55	1.14

RECEIVED
Office of Oil and Gas
OCT 9 2024
WV Department of
Environmental Protection

12/13/2024

Finicide GQ 510	1.02
FR-1000	1.05
FR-100AE	1.05
FR-1010	1.04
FR-2800C	1.20
FR-2800C	1.20
FR-30V	1.10
FR-516	1.09
Fresh Water	1.00
FWB100D	2.00
GB 300 E HT	1.72
GB-100 EHT	1.72
Greenhib 679	1.15
Gyptron T-475	1.04
Hi Flow 14	1.10
Hi Flow 5	1.11
HiRate Plus 1200	1.12
Hydrogen Chloride	1.05
ICC 400	1.22
Innoprop RC	2.55
ISR-100	1.02
KAI-12	0.82
KAI-18	0.90
KCC-9	1.11
KDF-1	1.01
KDF-3	1.01
KFE-14	1.01
KFEAC-30	1.13
KFR-12	1.10
KFR-32	1.05
KFR-36	1.04
KFR-38	1.11
KFR-40	1.02
KGBO-1	1.68
KpH-14L	1.28
KS-15	0.96
KSI-20	1.03
KSI-24W	1.00
KSV-17	1.13
KWBO-13	1.68
KWBO-2	1.68
KWG-111D	1.30
KWG-111L	1.05
KWG-7L	1.07
KWXB-12	1.00
KWXB-19	1.30
KWXB-20	1.14
LX-204E	1.05
Magnacide 575	1.33

12/13/2024

MBC 10:5	1.01
MC B-8614	1.04
MCS-376	1.00
MCS-376	1.00
Mega-Surf 101	0.96
Mega-Surf 102	1.01
MM-500	1.01
Myacide GA 25	1.06
NanoActiv	1.20
NBR-1	1.25
NBR-15	1.75
NBR-2	1.68
NCI-18	1.00
NCI-24	0.95
NCS-15	1.21
NE-1	0.94
NE-227	1.02
Newcide 669	1.03
NewStim Breaker MT	1.72
NewStim CC 329	1.19
NewStim SI 285	1.05
NFR-45	1.20
NFR-50	1.10
NFR-53	1.06
NFR-54	1.08
NFR-58	1.06
NFR-68X	1.10
NGA-10D	1.30
NGA-9D	1.50
NHV-37	1.05
NHV-49	0.98
NHV-50	1.05
NHV-53	1.10
NHV-75	1.05
NHV-83	1.10
NIC-20	1.05
NIC-21	1.18
NI-NE 200	1.00
nonActive Enhanced Bio-Lift 95	1.03
NPM-14	1.28
NPM-4	1.09
NRL-1W	0.96
NSA-3	1.10
NSI-24	1.02
NSI-32	1.05
NSI-38	1.08
NSI-38W	1.08
NSU-17	1.01
NSU-17	1.02

RECEIVED
Oil and Gas

OCT 9 2024

Department of
Environmental Protection

12/13/2024

NSU-17W	1.01
NXL-31	1.35
Peroymax	1.04
Peroymax	1.04
Plexaid 680	1.08
Plexaid 870	0.81
Plexbor 101	1.30
Plexcide 15g	1.01
Plexgel 907L-EB	1.04
Plexgel Breaker 10L	1.00
Plexslick 953	1.11
Plexsurf 215ES	0.96
PolyBreak 5	1.06
Polyglide Xcel-250	1.04
Produced Water	1.10
Product 6191	1.02
Propel SSP	2.50
Proppant (Ceramic)	3.20
Proppant (Sand)	2.65
PSI	3.34
PureCide E	1.25
ReDirect-250CFL	1.00
ReDirect-500	1.24
RSA-2	1.12
S-212	1.05
Sabrechlor 25	1.23
SCAL18415A	1.14
Scale 803	1.03
ScaleBlok 10	1.03
ScaleGuard II	2.58
Scalesorb 12	2.10
Scalesorb 3	2.30
Scalesorb 4	1.90
Scalesorb 6	2.50
Scalesorb 7	2.10
Scaletrol 356	1.11
Scaletrol 720	1.18
SCALETROL 767W	1.01
SCW 6002	1.02
SCW358	1.15
Shrieve-Cide 423	1.16
SI-202F	1.25
SI-208	1.07
SI-219	1.02
SI-4010	1.03
SmartSurf 533	0.99
Sodium Hypochlorite 12.5%	1.27
Sodium Hypochlorite 12%	1.27
StimOil E51	0.98

RECEIVED
 Division of Oil and Gas
 OCT 9 2024
 WV Department of
 Environmental Protection

12/13/2024

StimOil ENX	0.98
StimOil Q906	0.91
Stimsolve FR 7205	1.08
Super LC	2.50
TechlubeQ	1.00
Technihib 604W	1.36
Technihib 767W	1.19
Tetra Scale 15-101	1.03
Tolcide TP5	1.00
TSI-2120	0.98
ULT130	1.00
VEFR-2005	1.12
V-Scale 400	1.15
Water	1.00
XC750	1.17
X-Cide 750	0.83
X-Corr LT	0.94
NHV-33	1.10
WSI3730	1.03
WSI3730W	1.03
CIA-12	1.04
StimStream FR 9800	1.08
Clearal 268	1.03
StimStream SC 405	1.10
Sand (100 Mesh Proppant)	2.65
Sand (40/70 White Proppant)	2.65
Scal Hib PE-18W	1.14
Plexcide 20W	1.18
NFR-56	1.08
NFR-64	1.20
FR-11	1.08
3rd Party FR	
3rd Party Biocide	
3rd Pary Scale Inhibitor	

RECEIVED
Office of Oil and Gas

OCT 9 2024

Western Department of
Environmental Protection

12/13/2024

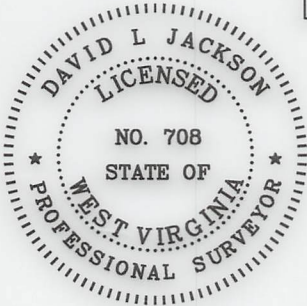
Customer	Operator Number
Apache	A1210248
Centennial	C1411207
Chevron	C1210173
Elk River Resources	E247760
Encana	E1210354
Energen	E1210228
EnerPlus	E1210114
Hess	H1210210
Jagged Peak	J1411017
PetroHunt	P1210340
Sinclair	S1210406
Slawson	S1210051
SM Energy	S1210124
Triangle	T1210413
Whiting	W1210021
WPX	W1210128
Shell	S1210079
SM Energy	S1210124
Riley Permian	R2112261
Elevation	E1410904
Silverback	
Caza	C1811916
Continental	C1210054
Chesapeake	C1210063

RECEIVED
and Gas
OCT 9 2024
Department of
Environmental Protection

12/13/2024

form ww6

Parcels within Unit Boundary				
Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	S1	05-02-17	JACK A HAIR & JEFFREY K HAIR	85
B	S2	05-02-02	JACK ALTON HAIR & JEFFREY HAIR	53.75
C	S3	02-23-06	DALE H & BETTY PARR	18.62
D	S4	02-23-07	DALE H & BETTY PARR	46.5
E	S5	02-23-08	DALE H & BETTY PARR	62
F	S6	02-17-55	WANDA J PARR	34
G	S7	02-17-56	J A WEEKLEY HRS, MONFORD NICHOLS & BETTY CUNNINGHAM	49.81
H	S8	02-17-57	RICHARD D & ERIKA L WILLIAMS	12.51
I	S9	02-17-57.3	RICHARD D & ERIKA L WILLIAMS	31.22
J	S10	02-17-57.2	RICHARD D & ERIKA L WILLIAMS	29.65
K	S11	02-17-57.1	RICHARD D & ERIKA L WILLIAMS	20.47
L	S12	02-16-31	CHRISTOPHER INVESTMENTS INC	60
Adjoining Parcels Ownership Table				
	Number	Tax Map -Parcel	Surface Owner	Acres
	S13	02-17-63	EDNA ROBERTS	110
	S14	02-17-58	CHRISTOPHER INVESTMENTS INC	58.5
	S15	02-17-32	SHALYNN R MCGRAW	61.66
	S16	02-17-34	SAMUEL C & SHERRI L HAMMETT & ROBERT E HAMMETT	20.45
	S17	02-17-35	SAMUEL C & SHERRI L HAMMETT & ROBERT E HAMMETT	29.54
	S18	02-17-53	WILLIAM J & ALMEDA S JAMES IRREVOCABLE TRUST	91.46
	S19	02-17-54	WANDA J PARR	17.43
	S20	02-23-09	DALE H & BETTY PARR	43.48
	S21	05-02-04	LLOYD D & PHYLLIS J WEEKLEY, BRIAN C LAPP & KEVIN L LAPP	167.56
	S22	02-23-6.1	DALE H & BETTY PARR	8.01
	S23	05-02-03	MICHAEL SHERWOOD	14.5
	S24	05-02-18	MICHAEL SHERWOOD	62.5
	S25	05-02-16	DUANE G NICHOLS	76.82
	S26	05-02-19	DUANE G NICHOLS, PHILLIP TODD NICHOLS & MORSE- BRANDT FAMILY TRUST	12.5
	S27	05-02-29.1	MICHAEL D MORSE TRUSTEE MORSE-BRANDT FAMILY TRUST	34.341
	S28	05-02-15	LEO W WIKER JOHN S WIKER & WILLIAM J WIKER	155.27
	S29	05-02-01	JACK HAIR & JEFFREY K HAIR	53.31
	S30	02-23-03	JACK A HAIR & JEFFREY K HAIR	9
	S31	02-23-04	JACK A HAIR & JEFFREY K HAIR	9
	S32	02-23-05	JACK A HAIR & JEFFREY K HAIR	3
	S33	02-23-27	LOUISA WEEKLEY EST	7
	S34	02-23-01	MARGARET ADAMS	20
	S35	02-23-02	DALE H & BETTY PARR	70
	S36	02-22-11	ANGELA KAY DEGUELLE & KATHY A BLAKE	45.983
	S37	02-22-10	LESLIE ANN HENDERSON	45.983
	S38	02-16-34	JAMES A WEEKLEY HEIRS, MONFORD NICHOLS & BETTY CUNNINGHAM	15
	S39	02-16-33	JAMES A. WEEKLEY HRS	16.5
	S40	02-23-10	DALE H & BETTY PARR	6.53
	S41	02-16-32	JAMES A. WEEKLEY HRS	58
	S42	02-16-28	KENNETH & LORI TOMBLIN & MICHAEL TOMBLIN	290.32
	S43	02-16-30	CHRISTOPHER INVESTMENTS INC	40

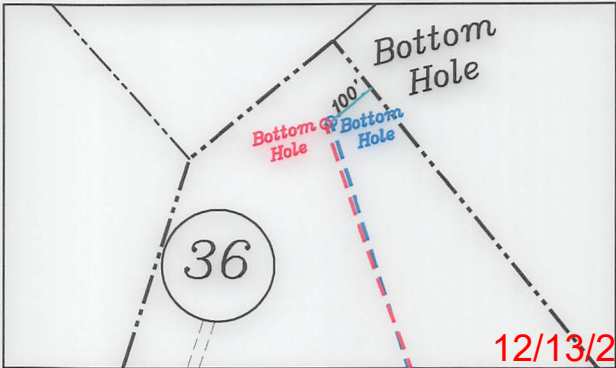


P.S.
708

David L Jackson

--- Asdrilled Leg
--- Proposed Leg

Detail "A"



12/13/2024



Jay Bee
Oil & Gas

DRILLING
into the future

API #: 47-095-02851

WELL #: RPT8-5

DISTRICT: McFLROY

COUNTY: TYLER

STATE: WV

WELL PLAT

PAGE 2 OF 3

DATE: 05/09/2024

form ww6

Jay-Bee Oil & Gas, Inc. - RPT8-5 Permit - WW-6A1 Exhibit					
Tracts	District Tax Map/Parcel	JB Tract #	Lessor, Grantor, Etc.	Deed Book/Page	Acres
A	05-02-17	RPT8	Jeffrey A Hair	398/535	85.000
A	05-02-17	RPT8	Jack J Hair	398/528	85.000
B	05-02-02	T1-13	Drilling Appalachia Company	558/96	53.750
C	02-23-06	T3106	Larry Mark Adams	385/41	18.620
D	02-23-07	T4002B	Cherie Lynn Bennett	402/772	46.500
E	02-23-08	T3109	Dale H. & Betty Parr	385/697	62.000
F	02-17-55	T3246	Pamela J Bonovitch	400/233	34.000
G	02-17-56	T3247	Robert L Archer	420/41	36.790
H	02-17-57	T3246A	Bounty Minerals, LLC	285/506	93.850
I	02-17-57.3	T3246A	Bounty Minerals, LLC	285/506	93.850
J	02-17-57.2	T3246A	Bounty Minerals, LLC	285/506	93.850
K	02-17-57.1	T3246A	Bounty Minerals, LLC	285/506	93.850
L	02-16-31	T3245	Bounty Minerals, LLC	TBR	60.000

Top Hole
Geo NAD 83- 39.483170 N, 80.786016 W
UTM NAD 83(Meters)-4370418.52 N, 518402.59 E
UTM NAD 83(Feet)-14338614.75 N, 1700792.51 E
Landing Point
Geo NAD 83- 39.484736 N, 80.787282 W
UTM NAD 83(Meters)-4370592.06 N, 518293.33 E
UTM NAD 83(Feet)-14339184.13 N, 1700434.05 E
Bottom Hole
Geo NAD 83- 39.509299 N, 80.797720 W
UTM NAD 83(Meters)-4373316.06 N, 517389.56 E
UTM NAD 83(Feet)-14348121.10 N, 1697468.93 E



P.S. 708 David L Jackson

12/13/2024



Jay Bee
Oil & Gas
DRILLING
into the future

API #:	47-095-02851	WELL PLAT PAGE 3 OF 3 DATE: 05/09/2024
WELL #:	RPT8-5	
DISTRICT:	McFLROY	
COUNTY:	TYLER	
STATE:	WV	