

Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	2018-03-12
State:	New Mexico
County:	Eddy
API Number:	3001543930
Operator Name:	CHEVRON - PERMAN BASIN-EBUS
Well Name and Number:	HH 80 (P) P3 164
Longitude:	-104.1787783
Latitude:	32.06466282
Long/Lat Projection:	
Indian/Federal:	none
Production Type:	
True Vertical Depth (TVD):	10,135
Total Water Volume (gd):	21,143,814

30-015-43930

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 03 2018

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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Ingredient Mass lbs	Comments	Company	First Name	Last Name	Email	Phone	
Fresh Water	Operator	Base Fluid	Water	7732-18-5	100.00%	87.526571	178125720	Density = 8.330						
SA-20 BUFFERING AGENT	Halliburton	Buffer	Listed Below	Listed Below			0	NA						
Ca-Wab(TM) II	Halliburton	Clay Stabilizer	Listed Below	Listed Below			0	NA						
HAI-08 ACID INHIBITOR	Halliburton	Corrosion Inhibitor	Listed Below	Listed Below			0	NA						
HCL >10%	Halliburton	Solvent	Listed Below	Listed Below			0	NA						
MC 8-8226	Halliburton	Biocide	Listed Below	Listed Below			0	NA						
OPTI-CAL III DELAYED RELEASE BREAKER	Halliburton	Breaker	Listed Below	Listed Below			0	NA						
OptiKleen-WF(TM)	Halliburton	Concentrate	Listed Below	Listed Below			0	NA						
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003878)	Halliburton	Proppant	Listed Below	Listed Below			0	NA						
SAND-CRC-2040, 100 LB SACK	Halliburton	Proppant	Listed Below	Listed Below			0	NA						
WG-36 GELLING AGENT	Halliburton	Gelling Agent	Listed Below	Listed Below			0	NA						
CORRSORB 3600	Baker Hughes	Corrosion Inhibitor	Listed Below	Listed Below			0	NA						
FDP-S1225-15	Halliburton	Surfactant	Listed Below	Listed Below			0	NA						
FIGHTR EC-1	Halliburton	Friction Reducer	Listed Below	Listed Below			0	NA						
LD-7725	Halliburton	Scale Inhibitor	Listed Below	Listed Below			0	NA						
MSDS and Non-MSDS Ingredients are listed below the green line														
Ingredients	Listed Above	Listed Above	Acetic acid	64-19-7	30.00%	0.001924	3662							
			Acid phosphate ester	Trade Secret			0		Darise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226	Baker Hughes	N/A	N/A	N/A	281-351-8131
			Amine	Proprietary	0.10%	0.000031	56		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Amine salts	Proprietary	1.00%	0.000310	616		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Ammonium acetate	631-81-8	100.00%	0.006401	12871							
			Ammonium compound	Proprietary	30.00%	0.008351	16797		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Ammonium persulfate	7727-54-0	100.00%	0.001553	3125							
			Chlorine compound	Proprietary	30.00%	0.008351	16797		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Contains no hazardous substances in concentrations above cut-off values according to the component authority.	CAS Not Assigned	100.00%	0.086334	173714		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Crystalline silica, quartz	14806-60-7	100.00%	11.729403	23602539							
			Crystalline silica: Quartz (SiO2)	14806-60-7	1.00%	0.000028	50							
			Cured acrylic resin	Proprietary	30.00%	0.000471	936		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Diatomaceous earth, calcined	91053-39-3	80.00%	0.001993	4000							
			Diacyldimethylammonium chloride	7173-81-5	10.00%	0.002463	4942							
			Ethanol	64-17-5	5.00%	0.001233	2471							
			Ethoxylated alcohols	Proprietary	30.00%	0.028951	54039		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Ethylene glycol	107-21-1	60.00%	0.013728	27609							
			Fatty acids, tall oil	Proprietary	30.00%	0.000228	445		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Fatty amine salt	Proprietary	5.00%	0.004441	8933		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Glutaraldehyde	111-30-8	30.00%	0.007374	14824							
			Gum gum	9000-30-0	100.00%	0.031683	63765							
			Hexamethylenetetramine	100-87-0	2.00%	0.047393	95358							
			Hydrochloric acid	7647-01-0	30.00%	0.133433	268500							
			Methanol	67-56-1	60.00%	0.000443	860							
			Octifns	Proprietary	5.00%	0.000094	180		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Phenol / formaldehyde resin	9000-35-4	5.00%	0.118473	238396							
			Propargyl alcohol	107-19-7	10.00%	0.000074	149							
			Quaternary amine	Proprietary	1.00%	0.000561	1120		Halliburton	Darise	Tuck	Darise.Tuck@Halliburton.com	281-871-6226	
			Quaternary ammonium compounds, benzyl-C12-C18-alkyldimethyl, chlorides	68424-85-1	7.00%	0.001724	3459							
			Quaternary ammonium chloride	Trade Secret			0		Baker Hughes	N/A	N/A	N/A	281-351-8131	
			Reaction product of acetophenone, formaldehyde, thiourea and oleo acid in dimethyl formamide	68527-49-1	30.00%	0.000221	445							
			Sodium chloride	7647-14-5	1.00%	0.000281	560							
			Sodium carbonate tetrahydrate	10486-00-7	100.00%	0.004511	13060							
			Water	7732-18-5	100.00%	0.489251	984496							

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%
 Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 26 CFR 1910.1200(i) and Appendix D.

HH SO 10 P3 15H

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Interval Number	Link to Proppant	Proppant Mass (lb)	Cum Proppant Mass (lb)
6	100 Mesh, 100 Mesh, Bulk Sand	11,429	11,725
6	100 Mesh, 100 Mesh, Bulk Sand	20,814	32,539
6	100 Mesh, 100 Mesh, Bulk Sand	40,058	72,597
6	100 Mesh, 100 Mesh, Bulk Sand	60,867	133,464
6	100 Mesh, 100 Mesh, Bulk Sand	73,735	207,199
6	100 Mesh, 100 Mesh, Bulk Sand	79,974	287,173
6	100 Mesh, 100 Mesh, Bulk Sand	88,989	376,162
6	40/70, CRC LT 40/70, Resin Coated Sand	25,356	401,518
6	40/70, CRC LT 40/70, Resin Coated Sand	69,002	470,520
7	100 Mesh, 100 Mesh, Bulk Sand	11,555	11,597
7	100 Mesh, 100 Mesh, Bulk Sand	20,897	32,494
7	100 Mesh, 100 Mesh, Bulk Sand	40,416	72,910
7	100 Mesh, 100 Mesh, Bulk Sand	60,727	133,637
7	100 Mesh, 100 Mesh, Bulk Sand	73,704	207,341
7	100 Mesh, 100 Mesh, Bulk Sand	79,125	286,466
7	100 Mesh, 100 Mesh, Bulk Sand	97,141	383,607
7	40/70, CRC LT 40/70, Resin Coated Sand	17,555	401,162
7	40/70, CRC LT 40/70, Resin Coated Sand	70,284	471,446
8	100 Mesh, 100 Mesh, Bulk Sand	11,415	11,529
8	100 Mesh, 100 Mesh, Bulk Sand	21,050	32,579
8	100 Mesh, 100 Mesh, Bulk Sand	39,942	72,521
8	100 Mesh, 100 Mesh, Bulk Sand	60,822	133,343
8	100 Mesh, 100 Mesh, Bulk Sand	74,029	207,372
8	100 Mesh, 100 Mesh, Bulk Sand	78,999	286,371
8	100 Mesh, 100 Mesh, Bulk Sand	89,848	376,219
8	40/70, CRC LT 40/70, Resin Coated Sand	25,037	401,256
8	40/70, CRC LT 40/70, Resin Coated Sand	69,675	470,931
9	100 Mesh, 100 Mesh, Bulk Sand	10,584	11,594
9	100 Mesh, 100 Mesh, Bulk Sand	21,013	32,607
9	100 Mesh, 100 Mesh, Bulk Sand	39,986	72,593
9	100 Mesh, 100 Mesh, Bulk Sand	61,225	133,818
9	100 Mesh, 100 Mesh, Bulk Sand	69,848	203,666
9	100 Mesh, 100 Mesh, Bulk Sand	78,884	282,550
9	100 Mesh, 100 Mesh, Bulk Sand	107,747	390,297
9	40/70, CRC LT 40/70, Resin Coated Sand	25,067	415,364
9	40/70, CRC LT 40/70, Resin Coated Sand	60,748	476,112
10	100 Mesh, 100 Mesh, Bulk Sand	11,378	11,481
10	100 Mesh, 100 Mesh, Bulk Sand	20,980	32,461
10	100 Mesh, 100 Mesh, Bulk Sand	40,049	72,510
10	100 Mesh, 100 Mesh, Bulk Sand	61,275	133,785
10	100 Mesh, 100 Mesh, Bulk Sand	73,428	207,213
10	100 Mesh, 100 Mesh, Bulk Sand	79,131	286,344
10	100 Mesh, 100 Mesh, Bulk Sand	89,863	376,207
10	40/70, CRC LT 40/70, Resin Coated Sand	26,130	402,337
10	40/70, CRC LT 40/70, Resin Coated Sand	75,243	477,580
11	100 Mesh, 100 Mesh, Bulk Sand	10,953	11,451
11	100 Mesh, 100 Mesh, Bulk Sand	23,503	34,954
11	100 Mesh, 100 Mesh, Bulk Sand	38,642	73,596

11	100 Mesh, 100 Mesh, Bulk Sand	60,730	134,326
11	100 Mesh, 100 Mesh, Bulk Sand	72,944	207,270
11	100 Mesh, 100 Mesh, Bulk Sand	79,506	286,776
11	100 Mesh, 100 Mesh, Bulk Sand	94,972	381,748
11	40/70, CRC LT 40/70, Resin Coated Sand	23,046	404,794
11	40/70, CRC LT 40/70, Resin Coated Sand	67,066	471,860
12	100 Mesh, 100 Mesh, Bulk Sand	11,477	11,480
12	100 Mesh, 100 Mesh, Bulk Sand	24,489	35,969
12	100 Mesh, 100 Mesh, Bulk Sand	36,102	72,071
12	100 Mesh, 100 Mesh, Bulk Sand	61,698	133,769
12	100 Mesh, 100 Mesh, Bulk Sand	73,712	207,481
12	100 Mesh, 100 Mesh, Bulk Sand	78,720	286,201
12	100 Mesh, 100 Mesh, Bulk Sand	90,115	376,316
12	40/70, CRC LT 40/70, Resin Coated Sand	25,078	401,394
12	40/70, CRC LT 40/70, Resin Coated Sand	72,011	473,405
13	100 Mesh, 100 Mesh, Bulk Sand	11,195	11,276
13	100 Mesh, 100 Mesh, Bulk Sand	21,510	32,786
13	100 Mesh, 100 Mesh, Bulk Sand	39,034	71,820
13	100 Mesh, 100 Mesh, Bulk Sand	62,010	133,830
13	100 Mesh, 100 Mesh, Bulk Sand	73,728	207,558
13	100 Mesh, 100 Mesh, Bulk Sand	78,956	286,514
13	100 Mesh, 100 Mesh, Bulk Sand	88,463	374,977
13	40/70, CRC LT 40/70, Resin Coated Sand	32,969	407,946
13	40/70, CRC LT 40/70, Resin Coated Sand	61,736	469,682
14	100 Mesh, 100 Mesh, Bulk Sand	15,343	15,386
14	100 Mesh, 100 Mesh, Bulk Sand	17,208	32,594
14	100 Mesh, 100 Mesh, Bulk Sand	40,658	73,252
14	100 Mesh, 100 Mesh, Bulk Sand	62,517	135,769
14	100 Mesh, 100 Mesh, Bulk Sand	73,134	208,903
14	100 Mesh, 100 Mesh, Bulk Sand	77,468	286,371
14	100 Mesh, 100 Mesh, Bulk Sand	89,799	376,170
14	40/70, CRC LT 40/70, Resin Coated Sand	24,988	401,158
14	40/70, CRC LT 40/70, Resin Coated Sand	69,125	470,283
15	100 Mesh, 100 Mesh, Bulk Sand	10,606	10,608
15	100 Mesh, 100 Mesh, Bulk Sand	21,750	32,358
15	100 Mesh, 100 Mesh, Bulk Sand	40,169	72,527
15	100 Mesh, 100 Mesh, Bulk Sand	61,171	133,698
15	100 Mesh, 100 Mesh, Bulk Sand	73,862	207,560
15	100 Mesh, 100 Mesh, Bulk Sand	79,037	286,597
15	100 Mesh, 100 Mesh, Bulk Sand	90,460	377,057
15	40/70, CRC LT 40/70, Resin Coated Sand	26,804	403,861
15	40/70, CRC LT 40/70, Resin Coated Sand	67,922	471,783
16	100 Mesh, 100 Mesh, Bulk Sand	10,693	10,693
16	100 Mesh, 100 Mesh, Bulk Sand	21,393	32,086
16	100 Mesh, 100 Mesh, Bulk Sand	40,701	72,787
16	100 Mesh, 100 Mesh, Bulk Sand	63,950	136,737
16	100 Mesh, 100 Mesh, Bulk Sand	72,371	209,108
16	100 Mesh, 100 Mesh, Bulk Sand	75,953	285,061
16	100 Mesh, 100 Mesh, Bulk Sand	85,563	370,624
16	40/70, CRC LT 40/70, Resin Coated Sand	29,721	400,345
16	40/70, CRC LT 40/70, Resin Coated Sand	71,033	471,378

17	100 Mesh, 100 Mesh, Bulk Sand	12,736	13,212
17	100 Mesh, 100 Mesh, Bulk Sand	19,366	32,578
17	100 Mesh, 100 Mesh, Bulk Sand	40,075	72,653
17	100 Mesh, 100 Mesh, Bulk Sand	61,080	133,733
17	100 Mesh, 100 Mesh, Bulk Sand	73,520	207,253
17	100 Mesh, 100 Mesh, Bulk Sand	79,648	286,901
17	100 Mesh, 100 Mesh, Bulk Sand	89,328	376,229
17	40/70, CRC LT 40/70, Resin Coated Sand	24,975	401,204
17	40/70, CRC LT 40/70, Resin Coated Sand	69,106	470,310
18	100 Mesh, 100 Mesh, Bulk Sand	11,554	11,589
18	100 Mesh, 100 Mesh, Bulk Sand	21,083	32,672
18	100 Mesh, 100 Mesh, Bulk Sand	39,850	72,522
18	100 Mesh, 100 Mesh, Bulk Sand	61,229	133,751
18	100 Mesh, 100 Mesh, Bulk Sand	73,484	207,235
18	100 Mesh, 100 Mesh, Bulk Sand	79,065	286,300
18	100 Mesh, 100 Mesh, Bulk Sand	89,924	376,224
18	40/70, CRC LT 40/70, Resin Coated Sand	25,273	401,497
18	40/70, CRC LT 40/70, Resin Coated Sand	69,419	470,916
19	100 Mesh, 100 Mesh, Bulk Sand	11,428	11,532
19	100 Mesh, 100 Mesh, Bulk Sand	20,977	32,509
19	100 Mesh, 100 Mesh, Bulk Sand	40,092	72,601
19	100 Mesh, 100 Mesh, Bulk Sand	61,111	133,712
19	100 Mesh, 100 Mesh, Bulk Sand	74,336	208,048
19	100 Mesh, 100 Mesh, Bulk Sand	84,762	292,810
19	100 Mesh, 100 Mesh, Bulk Sand	83,712	376,522
19	40/70, CRC LT 40/70, Resin Coated Sand	24,694	401,216
19	40/70, CRC LT 40/70, Resin Coated Sand	69,807	471,023
21	100 Mesh, 100 Mesh, Bulk Sand	11,515	11,519
21	100 Mesh, 100 Mesh, Bulk Sand	21,056	32,575
21	100 Mesh, 100 Mesh, Bulk Sand	39,930	72,505
21	100 Mesh, 100 Mesh, Bulk Sand	61,259	133,764
21	100 Mesh, 100 Mesh, Bulk Sand	74,312	208,076
21	100 Mesh, 100 Mesh, Bulk Sand	78,343	286,419
21	100 Mesh, 100 Mesh, Bulk Sand	90,685	377,104
21	40/70, CRC LT 40/70, Resin Coated Sand	24,175	401,279
21	40/70, CRC LT 40/70, Resin Coated Sand	68,460	469,739
22	100 Mesh, 100 Mesh, Bulk Sand	11,699	11,700
22	100 Mesh, 100 Mesh, Bulk Sand	20,785	32,485
22	100 Mesh, 100 Mesh, Bulk Sand	39,964	72,449
22	100 Mesh, 100 Mesh, Bulk Sand	60,204	132,653
22	100 Mesh, 100 Mesh, Bulk Sand	74,598	207,251
22	100 Mesh, 100 Mesh, Bulk Sand	76,780	284,031
22	100 Mesh, 100 Mesh, Bulk Sand	91,529	375,560
22	40/70, CRC LT 40/70, Resin Coated Sand	25,604	401,164
22	40/70, CRC LT 40/70, Resin Coated Sand	69,298	470,462
23	100 Mesh, 100 Mesh, Bulk Sand	11,461	11,675
23	100 Mesh, 100 Mesh, Bulk Sand	23,408	35,083
23	100 Mesh, 100 Mesh, Bulk Sand	40,011	75,094
23	100 Mesh, 100 Mesh, Bulk Sand	61,328	136,422
23	100 Mesh, 100 Mesh, Bulk Sand	73,630	210,052
23	100 Mesh, 100 Mesh, Bulk Sand	78,953	289,005

23	100 Mesh, 100 Mesh, Bulk Sand	90,035	379,040
23	40/70, CRC LT 40/70, Resin Coated Sand	25,100	404,140
23	40/70, CRC LT 40/70, Resin Coated Sand	68,861	473,001
24	100 Mesh, 100 Mesh, Bulk Sand	10,324	10,334
24	100 Mesh, 100 Mesh, Bulk Sand	21,684	32,018
24	100 Mesh, 100 Mesh, Bulk Sand	39,877	71,895
24	100 Mesh, 100 Mesh, Bulk Sand	62,801	134,696
24	100 Mesh, 100 Mesh, Bulk Sand	73,370	208,066
24	100 Mesh, 100 Mesh, Bulk Sand	76,788	284,854
24	100 Mesh, 100 Mesh, Bulk Sand	82,791	367,645
24	40/70, CRC LT 40/70, Resin Coated Sand	28,845	396,490
24	40/70, CRC LT 40/70, Resin Coated Sand	78,258	474,748
25	100 Mesh, 100 Mesh, Bulk Sand	10,859	10,859
25	100 Mesh, 100 Mesh, Bulk Sand	22,132	32,991
25	100 Mesh, 100 Mesh, Bulk Sand	41,156	74,147
25	100 Mesh, 100 Mesh, Bulk Sand	60,894	135,041
25	100 Mesh, 100 Mesh, Bulk Sand	74,066	209,107
25	100 Mesh, 100 Mesh, Bulk Sand	77,088	286,195
25	100 Mesh, 100 Mesh, Bulk Sand	87,603	373,798
25	40/70, CRC LT 40/70, Resin Coated Sand	27,546	401,344
25	40/70, CRC LT 40/70, Resin Coated Sand	72,107	473,451
26	100 Mesh, 100 Mesh, Bulk Sand	11,952	12,005
26	100 Mesh, 100 Mesh, Bulk Sand	18,764	30,769
26	100 Mesh, 100 Mesh, Bulk Sand	42,261	73,030
26	100 Mesh, 100 Mesh, Bulk Sand	63,795	136,825
26	100 Mesh, 100 Mesh, Bulk Sand	71,967	208,792
26	100 Mesh, 100 Mesh, Bulk Sand	76,729	285,521
26	100 Mesh, 100 Mesh, Bulk Sand	88,737	374,258
26	40/70, CRC LT 40/70, Resin Coated Sand	28,653	402,911
26	40/70, CRC LT 40/70, Resin Coated Sand	70,038	472,949
27	100 Mesh, 100 Mesh, Bulk Sand	11,552	11,572
27	100 Mesh, 100 Mesh, Bulk Sand	20,975	32,547
27	100 Mesh, 100 Mesh, Bulk Sand	40,063	72,610
27	100 Mesh, 100 Mesh, Bulk Sand	61,214	133,824
27	100 Mesh, 100 Mesh, Bulk Sand	73,385	207,209
27	100 Mesh, 100 Mesh, Bulk Sand	79,142	286,351
27	100 Mesh, 100 Mesh, Bulk Sand	89,853	376,204
27	40/70, CRC LT 40/70, Resin Coated Sand	25,115	401,319
27	40/70, CRC LT 40/70, Resin Coated Sand	70,234	471,553
28	100 Mesh, 100 Mesh, Bulk Sand	10,379	11,707
28	100 Mesh, 100 Mesh, Bulk Sand	20,881	32,588
28	100 Mesh, 100 Mesh, Bulk Sand	40,302	72,890
28	100 Mesh, 100 Mesh, Bulk Sand	60,859	133,749
28	100 Mesh, 100 Mesh, Bulk Sand	73,570	207,319
28	100 Mesh, 100 Mesh, Bulk Sand	78,972	286,291
28	100 Mesh, 100 Mesh, Bulk Sand	90,239	376,530
28	40/70, CRC LT 40/70, Resin Coated Sand	24,892	401,422
28	40/70, CRC LT 40/70, Resin Coated Sand	69,437	470,859
29	100 Mesh, 100 Mesh, Bulk Sand	12,312	12,381
29	100 Mesh, 100 Mesh, Bulk Sand	20,133	32,514
29	100 Mesh, 100 Mesh, Bulk Sand	39,933	72,447

29	100 Mesh, 100 Mesh, Bulk Sand	61,325	133,772
29	100 Mesh, 100 Mesh, Bulk Sand	74,785	208,557
29	100 Mesh, 100 Mesh, Bulk Sand	78,280	286,837
29	100 Mesh, 100 Mesh, Bulk Sand	97,315	384,152
29	40/70, CRC LT 40/70, Resin Coated Sand	25,654	409,806
29	40/70, CRC LT 40/70, Resin Coated Sand	60,222	470,028
30	100 Mesh, 100 Mesh, Bulk Sand	11,473	11,525
30	100 Mesh, 100 Mesh, Bulk Sand	21,061	32,586
30	100 Mesh, 100 Mesh, Bulk Sand	39,952	72,538
30	100 Mesh, 100 Mesh, Bulk Sand	65,684	138,222
30	100 Mesh, 100 Mesh, Bulk Sand	71,632	209,854
30	100 Mesh, 100 Mesh, Bulk Sand	81,222	291,076
30	100 Mesh, 100 Mesh, Bulk Sand	88,235	379,311
30	40/70, CRC LT 40/70, Resin Coated Sand	27,040	406,351
30	40/70, CRC LT 40/70, Resin Coated Sand	65,193	471,544
31	100 Mesh, 100 Mesh, Bulk Sand	12,098	12,098
31	100 Mesh, 100 Mesh, Bulk Sand	20,453	32,551
31	100 Mesh, 100 Mesh, Bulk Sand	42,714	75,265
31	100 Mesh, 100 Mesh, Bulk Sand	60,618	135,883
31	100 Mesh, 100 Mesh, Bulk Sand	74,402	210,285
31	100 Mesh, 100 Mesh, Bulk Sand	76,162	286,447
31	100 Mesh, 100 Mesh, Bulk Sand	89,784	376,231
31	40/70, CRC LT 40/70, Resin Coated Sand	25,074	401,305
31	40/70, CRC LT 40/70, Resin Coated Sand	69,110	470,415
32	100 Mesh, 100 Mesh, Bulk Sand	11,346	12,095
32	100 Mesh, 100 Mesh, Bulk Sand	20,643	32,738
32	100 Mesh, 100 Mesh, Bulk Sand	39,833	72,571
32	100 Mesh, 100 Mesh, Bulk Sand	66,127	138,698
32	100 Mesh, 100 Mesh, Bulk Sand	69,672	208,370
32	100 Mesh, 100 Mesh, Bulk Sand	75,986	284,356
32	100 Mesh, 100 Mesh, Bulk Sand	82,891	367,247
32	40/70, CRC LT 40/70, Resin Coated Sand	27,563	394,810
32	40/70, CRC LT 40/70, Resin Coated Sand	76,567	471,377
33	100 Mesh, 100 Mesh, Bulk Sand	11,572	11,579
33	100 Mesh, 100 Mesh, Bulk Sand	21,570	33,149
33	100 Mesh, 100 Mesh, Bulk Sand	41,328	74,477
33	100 Mesh, 100 Mesh, Bulk Sand	59,376	133,853
33	100 Mesh, 100 Mesh, Bulk Sand	73,397	207,250
33	100 Mesh, 100 Mesh, Bulk Sand	79,127	286,377
33	100 Mesh, 100 Mesh, Bulk Sand	90,102	376,479
33	40/70, CRC LT 40/70, Resin Coated Sand	24,843	401,322
33	40/70, CRC LT 40/70, Resin Coated Sand	70,313	471,635
34	100 Mesh, 100 Mesh, Bulk Sand	11,528	11,528
34	100 Mesh, 100 Mesh, Bulk Sand	20,951	32,479
34	100 Mesh, 100 Mesh, Bulk Sand	40,270	72,749
34	100 Mesh, 100 Mesh, Bulk Sand	61,324	134,073
34	100 Mesh, 100 Mesh, Bulk Sand	73,146	207,219
34	100 Mesh, 100 Mesh, Bulk Sand	77,532	284,751
34	100 Mesh, 100 Mesh, Bulk Sand	91,982	376,733
34	40/70, CRC LT 40/70, Resin Coated Sand	25,256	401,989
34	40/70, CRC LT 40/70, Resin Coated Sand	72,251	474,240

35	100 Mesh, 100 Mesh, Bulk Sand	11,519	11,519
35	100 Mesh, 100 Mesh, Bulk Sand	21,047	32,566
35	100 Mesh, 100 Mesh, Bulk Sand	42,788	75,354
35	100 Mesh, 100 Mesh, Bulk Sand	58,388	133,742
35	100 Mesh, 100 Mesh, Bulk Sand	73,538	207,280
35	100 Mesh, 100 Mesh, Bulk Sand	78,961	286,241
35	100 Mesh, 100 Mesh, Bulk Sand	91,583	377,824
35	40/70, CRC LT 40/70, Resin Coated Sand	24,009	401,833
35	40/70, CRC LT 40/70, Resin Coated Sand	69,173	471,006
36	100 Mesh, 100 Mesh, Bulk Sand	12,508	12,558
36	100 Mesh, 100 Mesh, Bulk Sand	20,007	32,565
36	100 Mesh, 100 Mesh, Bulk Sand	40,463	73,028
36	100 Mesh, 100 Mesh, Bulk Sand	60,751	133,779
36	100 Mesh, 100 Mesh, Bulk Sand	73,925	207,704
36	100 Mesh, 100 Mesh, Bulk Sand	78,556	286,260
36	100 Mesh, 100 Mesh, Bulk Sand	90,103	376,363
36	40/70, CRC LT 40/70, Resin Coated Sand	27,269	403,632
36	40/70, CRC LT 40/70, Resin Coated Sand	70,687	474,319
37	100 Mesh, 100 Mesh, Bulk Sand	11,502	11,506
37	100 Mesh, 100 Mesh, Bulk Sand	21,054	32,560
37	100 Mesh, 100 Mesh, Bulk Sand	40,014	72,574
37	100 Mesh, 100 Mesh, Bulk Sand	61,163	133,737
37	100 Mesh, 100 Mesh, Bulk Sand	73,543	207,280
37	100 Mesh, 100 Mesh, Bulk Sand	79,065	286,345
37	100 Mesh, 100 Mesh, Bulk Sand	89,955	376,300
37	40/70, CRC LT 40/70, Resin Coated Sand	30,016	406,316
37	40/70, CRC LT 40/70, Resin Coated Sand	68,499	474,815
38	100 Mesh, 100 Mesh, Bulk Sand	11,507	11,524
38	100 Mesh, 100 Mesh, Bulk Sand	21,023	32,547
38	100 Mesh, 100 Mesh, Bulk Sand	40,036	72,583
38	100 Mesh, 100 Mesh, Bulk Sand	61,149	133,732
38	100 Mesh, 100 Mesh, Bulk Sand	73,617	207,349
38	100 Mesh, 100 Mesh, Bulk Sand	79,008	286,357
38	100 Mesh, 100 Mesh, Bulk Sand	89,354	375,711
38	40/70, CRC LT 40/70, Resin Coated Sand	25,565	401,276
38	40/70, CRC LT 40/70, Resin Coated Sand	69,767	471,043
39	100 Mesh, 100 Mesh, Bulk Sand	11,492	11,508
39	100 Mesh, 100 Mesh, Bulk Sand	22,976	34,484
39	100 Mesh, 100 Mesh, Bulk Sand	38,003	72,487
39	100 Mesh, 100 Mesh, Bulk Sand	61,305	133,792
39	100 Mesh, 100 Mesh, Bulk Sand	73,398	207,190
39	100 Mesh, 100 Mesh, Bulk Sand	84,510	291,700
39	100 Mesh, 100 Mesh, Bulk Sand	85,240	376,940
39	40/70, CRC LT 40/70, Resin Coated Sand	27,494	404,434
39	40/70, CRC LT 40/70, Resin Coated Sand	67,087	471,521
40	100 Mesh, 100 Mesh, Bulk Sand	11,542	11,542
40	100 Mesh, 100 Mesh, Bulk Sand	21,029	32,571
40	100 Mesh, 100 Mesh, Bulk Sand	39,970	72,541
40	100 Mesh, 100 Mesh, Bulk Sand	61,589	134,130
40	100 Mesh, 100 Mesh, Bulk Sand	73,159	207,289
40	100 Mesh, 100 Mesh, Bulk Sand	79,024	286,313

40	100 Mesh, 100 Mesh, Bulk Sand	89,970	376,283
40	40/70, CRC LT 40/70, Resin Coated Sand	24,992	401,275
40	40/70, CRC LT 40/70, Resin Coated Sand	69,204	470,479
41	100 Mesh, 100 Mesh, Bulk Sand	11,500	11,500
41	100 Mesh, 100 Mesh, Bulk Sand	21,083	32,583
41	100 Mesh, 100 Mesh, Bulk Sand	40,052	72,635
41	100 Mesh, 100 Mesh, Bulk Sand	61,162	133,797
41	100 Mesh, 100 Mesh, Bulk Sand	73,478	207,275
41	100 Mesh, 100 Mesh, Bulk Sand	79,114	286,389
41	100 Mesh, 100 Mesh, Bulk Sand	85,188	371,577
41	40/70, CRC LT 40/70, Resin Coated Sand	30,403	401,980
41	40/70, CRC LT 40/70, Resin Coated Sand	68,965	470,945
42	100 Mesh, 100 Mesh, Bulk Sand	13,437	13,437
42	100 Mesh, 100 Mesh, Bulk Sand	18,998	32,435
42	100 Mesh, 100 Mesh, Bulk Sand	40,187	72,622
42	100 Mesh, 100 Mesh, Bulk Sand	61,124	133,746
42	100 Mesh, 100 Mesh, Bulk Sand	73,459	207,205
42	100 Mesh, 100 Mesh, Bulk Sand	79,175	286,380
42	100 Mesh, 100 Mesh, Bulk Sand	89,819	376,199
42	40/70, CRC LT 40/70, Resin Coated Sand	25,092	401,291
42	40/70, CRC LT 40/70, Resin Coated Sand	64,324	465,615
43	100 Mesh, 100 Mesh, Bulk Sand	12,229	12,258
43	100 Mesh, 100 Mesh, Bulk Sand	20,324	32,582
43	100 Mesh, 100 Mesh, Bulk Sand	39,763	72,345
43	100 Mesh, 100 Mesh, Bulk Sand	61,506	133,851
43	100 Mesh, 100 Mesh, Bulk Sand	73,504	207,355
43	100 Mesh, 100 Mesh, Bulk Sand	79,032	286,387
43	100 Mesh, 100 Mesh, Bulk Sand	89,880	376,267
43	40/70, CRC LT 40/70, Resin Coated Sand	24,975	401,242
43	40/70, CRC LT 40/70, Resin Coated Sand	71,539	472,781
44	100 Mesh, 100 Mesh, Bulk Sand	11,512	11,522
44	100 Mesh, 100 Mesh, Bulk Sand	21,126	32,648
44	100 Mesh, 100 Mesh, Bulk Sand	43,060	75,708
44	100 Mesh, 100 Mesh, Bulk Sand	60,738	136,446
44	100 Mesh, 100 Mesh, Bulk Sand	70,853	207,299
44	100 Mesh, 100 Mesh, Bulk Sand	78,958	286,257
44	100 Mesh, 100 Mesh, Bulk Sand	90,001	376,258
44	40/70, CRC LT 40/70, Resin Coated Sand	27,580	403,838
44	40/70, CRC LT 40/70, Resin Coated Sand	67,881	471,719
45	100 Mesh, 100 Mesh, Bulk Sand	11,221	11,261
45	100 Mesh, 100 Mesh, Bulk Sand	23,645	34,906
45	100 Mesh, 100 Mesh, Bulk Sand	37,558	72,464
45	100 Mesh, 100 Mesh, Bulk Sand	61,306	133,770
45	100 Mesh, 100 Mesh, Bulk Sand	73,432	207,202
45	100 Mesh, 100 Mesh, Bulk Sand	79,939	287,141
45	100 Mesh, 100 Mesh, Bulk Sand	91,032	378,173
45	40/70, CRC LT 40/70, Resin Coated Sand	24,724	402,897
45	40/70, CRC LT 40/70, Resin Coated Sand	67,888	470,785
46	100 Mesh, 100 Mesh, Bulk Sand	11,607	11,619
46	100 Mesh, 100 Mesh, Bulk Sand	21,670	33,289
46	100 Mesh, 100 Mesh, Bulk Sand	39,373	72,662

46	100 Mesh, 100 Mesh, Bulk Sand	61,124	133,786
46	100 Mesh, 100 Mesh, Bulk Sand	75,186	208,972
46	100 Mesh, 100 Mesh, Bulk Sand	77,423	286,395
46	100 Mesh, 100 Mesh, Bulk Sand	89,776	376,171
46	40/70, CRC LT 40/70, Resin Coated Sand	25,168	401,339
46	40/70, CRC LT 40/70, Resin Coated Sand	70,965	472,304
47	100 Mesh, 100 Mesh, Bulk Sand	11,552	11,608
47	100 Mesh, 100 Mesh, Bulk Sand	21,067	32,675
47	100 Mesh, 100 Mesh, Bulk Sand	40,185	72,860
47	100 Mesh, 100 Mesh, Bulk Sand	61,207	134,067
47	100 Mesh, 100 Mesh, Bulk Sand	73,265	207,332
47	100 Mesh, 100 Mesh, Bulk Sand	79,044	286,376
47	100 Mesh, 100 Mesh, Bulk Sand	89,880	376,256
47	40/70, CRC LT 40/70, Resin Coated Sand	26,576	402,832
47	40/70, CRC LT 40/70, Resin Coated Sand	68,603	471,435
48	100 Mesh, 100 Mesh, Bulk Sand	11,641	11,641
48	100 Mesh, 100 Mesh, Bulk Sand	20,934	32,575
48	100 Mesh, 100 Mesh, Bulk Sand	41,901	74,476
48	100 Mesh, 100 Mesh, Bulk Sand	59,320	133,796
48	100 Mesh, 100 Mesh, Bulk Sand	73,560	207,356
48	100 Mesh, 100 Mesh, Bulk Sand	78,930	286,286
48	100 Mesh, 100 Mesh, Bulk Sand	90,080	376,366
48	40/70, CRC LT 40/70, Resin Coated Sand	24,907	401,273
48	40/70, CRC LT 40/70, Resin Coated Sand	69,201	470,474
49	100 Mesh, 100 Mesh, Bulk Sand	11,503	11,509
49	100 Mesh, 100 Mesh, Bulk Sand	21,028	32,537
49	100 Mesh, 100 Mesh, Bulk Sand	39,989	72,526
49	100 Mesh, 100 Mesh, Bulk Sand	61,192	133,718
49	100 Mesh, 100 Mesh, Bulk Sand	73,497	207,215
49	100 Mesh, 100 Mesh, Bulk Sand	79,096	286,311
49	100 Mesh, 100 Mesh, Bulk Sand	88,720	375,031
49	40/70, CRC LT 40/70, Resin Coated Sand	26,212	401,243
49	40/70, CRC LT 40/70, Resin Coated Sand	68,761	470,004
50	100 Mesh, 100 Mesh, Bulk Sand	11,557	11,562
50	100 Mesh, 100 Mesh, Bulk Sand	21,022	32,584
50	100 Mesh, 100 Mesh, Bulk Sand	40,736	73,320
50	100 Mesh, 100 Mesh, Bulk Sand	59,990	133,310
50	100 Mesh, 100 Mesh, Bulk Sand	71,927	205,237
50	100 Mesh, 100 Mesh, Bulk Sand	81,122	286,359
50	100 Mesh, 100 Mesh, Bulk Sand	89,962	376,321
50	40/70, CRC LT 40/70, Resin Coated Sand	24,987	401,308
50	40/70, CRC LT 40/70, Resin Coated Sand	73,430	474,738