

APPROVED MODULAR ABOVE GROUND STORAGE STRUCTURES ("MASS")

eFACTS AUTH Id #	Site Id #	Date Submitted	Submitter	Tank Company	Model	Volume	Secondary Containment	Liner
1167110	812729	1/24/2017	JKLM Energy, LLC	Water Well Solutions	40K	40,000 barrels	The primary MASS is fully contained within a second larger MASS to provide 110% secondary containment. A second 30-mil polyethylene liner is placed under the primary liner and draped over the sides of the second MASS and is anchored on the outside of the structure.	Brawler Industries 30-mil polyethylene liner.
1167924	781204	1/30/2017	INFLECTION ENERGY (PA) LLC	Environmental Tank and Container	epic 360 by Extreme Plastic Plus	40,000 barrels	The secondary containment MASS has the same but slightly larger design specifications as the primary MASS with a secured 40 mil polyethylene tertiary liner to provide 110% secondary containment.	Layfield Enviro Liner® 1000N (EL 1000N) series 40 mil polyethylene liner.

1168741	772996	2/7/17	Repsol Oil & Gas USA LLC	Comtech Industries, Inc.	DYNA-TANK	1,167,556.44 gallons	A Poly Dike wall containment system creating 5-foot high walls with a 100-mil polyethylene liner draped over it to meet >110% of the capacity of the tank.	New Pig Energy - PIG Well Pad Liner (MSD-211). 100 mil polyethylene liner.
1169732	735270	2/10/2017	EQT Production Co	Environmental Tank and Container	epic 360 by Extreme Plastic Plus 10,000 BBL 22,000 BBL 40,000 BBL	10,000 BBL 22,000 BBL 40,000 BBL	The secondary containment MASS has the same but slightly larger design specifications as the primary MASS with a secured 30 mil (minimum) polyethylene secondary liner to provide 110% secondary containment.	Solmax polyethylene liner, min. 30 mils.
1179809	742198	4/27/2017	CNX Gas Company LLC	Rain For Rent	PCI MFG. Solutions B-16-18B-21B-24B-35B-40	B-16 – 700,330 gallons B-18 - 826,149 gallons B-21 – 962,357 gallons B-24 – 1,101,597 gallons B-35 – 1,586,300 gallons B-40 – 1,804,857 gallons	The primary Mass is fully contained within a second larger modular MASS to provide 110% secondary containment that utilizes the second secured 40 mil polyethylene liner.	Layfield Enviro Liner® 1000N (EL 1000N) series 40 mil polyethylene liner.

1186823	731059	6/13/2017	XPR Resources LLC	Keystone Clearwater Solutions	1.0 MG	1,072,650 gallons	1.25 million gallons modular aboveground storage structure with a secured 40 mil polyethylene tertiary liner to provide 110% secondary containment.	Solmax polyethylene liner.
1193396	790349	8/7/2017	Repsol Oil & Gas USA LLC	Comtech Industries, Inc.	DYNA-TANK	541,215 gallons	A Poly Dike wall containment system creating 5-foot high walls with a 100-mil polyethylene liner draped over it to meet >110% of the capacity of the tank.	New Pig Energy - PIG Well Pad Liner (MSD-211) 100 mil polyethylene liner.
1192880	819909	8/25/2017	PennEnergy	Rockwater Energy Solutions	Atlantis above ground storage tank	1,987,000 gallons	The primary MASS is fully contained within a second larger modular MASS and has a secured 30 mil polyethylene secured tertiary liner to provide 110% secondary containment.	Solmax polyethylene liner.

1197203	782739	9/7/2017	CNX Gas Company LLC	Rockwater Energy Solutions now named Select Energy Services	10k Tank 24k Tank 40k Tank 41k Tank	<u>10k Tank</u> 426,834 gallons <u>24k Tank</u> 1,034,757 gallons <u>40k Tank</u> 1,696,232 gallons <u>41k Tank</u> 1,737,811 gallons	The primary MASS is fully contained within a second larger modular MASS and has a 30 mil polyethylene secured tertiary liner to provide 110% secondary containment.	Solmax polyethylene liner.
1204144	766347	10/24/2017	Southwestern Energy	Water Well Solutions	20,000 BBL	705,600 gallons	The primary MASS is fully contained within a second larger modular MASS and has a 30 mil polyethylene secured tertiary liner to provide 110% secondary containment.	High Performance GSE UltraFlex Smooth 30 mil polyethylene liner.
1204162	757412	10/25/2017	Repsol Oil & Gas USA LLC	Comtech Industries, Inc.	DynaTank	nominal - 1,082,430 gallons useable - 1,022,694 gallons	A Poly Dike wall containment system creating 5-foot high walls with a 100-mil polyethylene liner draped over it to meet >110% of the capacity of the tank.	New Pig Energy - PIG Well Pad Liner (MSD-211) 100 mil polyethylene liner.

1212162	800709	12/4/2017	EM Energy PA LLC	Well Water Solutions and Rentals, Inc.		1,974,000 gallons (47,000 BBLs)	The secondary containment mass is 2,310,000 gallons (55,000 bbls), 11.6' in height and diameter is 182'7-9/16".	High Performance GSE UltraFlex Smooth 40 mil polyethylene liner. The liner will be underlain by a 10 oz. layer of nonwoven geotextile cushion (SKAPS Oil&gas-10).
		2/6/2018	EM Energy PA LLC	Well Water Solutions and Rentals, Inc.		1,680,000 gallons (40,000 BBLs)	The secondary containment mass is 1,932,000 gallons (46,000 BBLs), 12' in height and diameter is 165'9".	The liner will be underlain by a 10 oz. layer of nonwoven needle-punched geotextile cushion (Layfield LP10).
1213820	766103	1/17/2018	BKV OPR LLC	Well Water Solutions and Rentals, Inc.		30,000 bbl	The secondary containment mass is 36,000 bbl, 11.6' in height and diameter is 148'. Provides >120% secondary containment capacity.	High Performance GSE UltraFlex Smooth 30 mil polyethylene liner.

1213969	783807	1/18/2018	INFLECTION ENERGY (PA) LLC	Epic 360		40,000 bbl (1,680,000 gal)	The secondary containment has a capacity of 46,000 bbl (1,932,000 gal) tank with a diameter of 165.75 feet and height of 12.0 feet with the same design specifications as the primary tank, including a third 40 mil HDPE secured liner.	The liner system will be underlain by a 10 oz. layer of nonwoven geotextile cushion. Liner and nonwoven geotextile product cut sheets are attached.
1219652	772922	3/6/2018	Pennsylvania General Energy	Water Well Solutions	20,000 BBL and 36,000 BBL	665,189 gallons with 2' freeboard 1,257,634 gallons with 2' freeboard	The primary MASS is fully contained within a second larger modular MASS and has a 30 mil polyethylene secured tertiary liner to provide 110% secondary containment.	High Performance GSE UltraFlex Smooth 30 mil polyethylene liner.
1221642	788124	3/26/2018	EQT CHAP LLC (Chevron Appalachia, LLC)	Comtech Industries, Inc.	DynaTank	nominal - 1,082,432 gallons useable - 1,037,630 gallons	A Poly Dike wall containment system with a 130-mil polyethylene liner to meet at least 110% of the capacity of the tank.	2 bottom liners = 35 mil EPI Reinforced Ultra Tech 8oz geotextile underlayment

1229242	755315	5/16/2018	ROCKDALE MARCELLUS LLC	Rockwater Energy Solutions		43K BBL	The secondary containment mass is 49K BBL, 12 ft in height and diameter is 171'. The secondary tank will be constructed to hold a volume of 139% of the AST (49k Bbl).	Solmax polyethylene liner.
1229641	729308	5/18/2018	ROCKDALE MARCELLUS LLC	Rockwater Energy Solutions		1.74 million gallon (1,737,686 gallons)	The secondary containment mass is 1.99 million-gallon, 12 ft in height and diameter is 168.15'. The outer tank provides 115% containment of the volume of the inner tank.	Solmax polyethylene liner.
1230669	777613	5/29/2018	Geylock Prod LLC	Keystone Clearwater Solutions		1,080,026 gallons	1.25 million gallons modular aboveground storage structure with a secured 40 mil polyethylene tertiary liner to provide 110% secondary containment.	Solmax polyethylene liner.
1234251	808888	5/30/2018	EM Energy PA LLC	(Manf. By Global Fabrication, Inc.) Keystone Clearwater Solutions	GFI 1.5 MM	1.5 million gallons	The secondary containment mass is 1,812,779 gallons, 12 ft in height and diameter is 160'.	Layfield Enviro Liner® 1000N (EL 1000N) series 40 mil polyethylene liner.

1234959	825259	6/29/2018	JKLM Energy, LLC	Water Well Solutions	Shark	10,000 to 40,000 bbl	The primary MASS is fully contained within a second larger MASS to provide 110% secondary containment. A second 30-mil polyethylene liner is placed under the primary liner and draped over the sides of the second MASS and is anchored on the outside of the structure.	The tank is lined with a 30-mil linear low density polyethylene synthetic liner.
1251629	825090	10/23/2018	CNX Gas Company LLC	Rockwater Energy Solutions	<u>10k Tank</u> 426,834 gallons <u>24k Tank</u> 1,034,757 gallons <u>40k Tank</u> 1,696,232 gallons <u>41k Tank</u> 1,737,811 gallons	<u>10k Tank</u> 426,834 gallons <u>24k Tank</u> 1,034,757 gallons <u>40k Tank</u> 1,696,232 gallons <u>41k Tank</u> 1,737,811 gallons	The primary MASS is fully contained within a second larger modular MASS and has a 30 mil polyethylene secured tertiary liner to provide 110% secondary containment.	Solmax polyethylene liner.

1255275	758593	12/14/2018	SWEPIIP	Keystone Clearwater Solutions	1072650 gallons	1072650 gallons	The secondary containment mass is 1,297,907 gallons, 12 ft in height and diameter is 135.68'. The outer tank provides 110% containment of the volume of the inner tank.	Solmax polyethylene liner.
1279702	782552	7/9/2019	EXCO Resources PA LLC	Big Holding System LTD.		1.5 million gallons	The secondary containment mass is 1,726,161 gallons, 12 ft in height and diameter is 150'. The outer tank provides 110% containment of the volume of the inner tank.	Solmax polyethylene liner.
1287242	833105	7/16/2019	PA GEN Energy CO LLC	Water Well Solutions		15,143 gallons 50,000 bbl	The secondary containment mass is 17,562 gallons (60K bbl), 11 ft 8 in in height and diameter is 189' 4-11/16". The outer tank provides 110% containment of the volume of the inner tank.	The tank is lined with a 30-mil linear low density polyethylene synthetic liner.
1286993	790607	9/4/2019	EQT CHAP LLC (Chevron Appalachia, LLC)	Well Water Solutions and Rentals, Inc.		10,000 bbl	The secondary containment mass is (17K bbl), 11 ft 8 in in height and diameter is 101' 5-1/2". The outer tank provides 110% containment of the volume of the inner tank.	The tank is lined with a 30-mil linear low density polyethylene synthetic liner.

1298089	835520	12/6/2019	Beech Resources LLC	Epic 360		1,375,220 gallons	The secondary containment mass is 1,613,974 gallons, 12 ft in height and diameter is 165' 9". The outer tank provides 117% containment of the volume of the inner tank.	Solmax polyethylene liner.
1301351	831324	1/7/2020	CNX Gas Company LLC	Select Energy Services		426,834 – 1,737,811 gallons	The secondary containment will contain at least 110% of the MASS's capacity.	Solmax polyethylene liner.
1302169	750733	1/17/2020	Rice Drilling B LLC	GEI		22K bbl	The secondary containment mass is 26K bbl, 12'4" in height and diameter is 124' 4".	Solmax polyethylene liner.
1305289	826128	2/13/2020	CNX Gas Company LLC	Select Energy Services		426,834 – 1,737,811 gallons	The secondary containment will contain at least 110% of the MASS's capacity.	Solmax polyethylene liner.
1313406	832544	5/5/2020	Greylock Prod LLC	ETC		22K bbl	The secondary containment mass is 26K bbl, 12' in height and diameter is 124' 4" to provide at least 110% secondary containment.	Layfield Enviro Liner® 1000N (EL 1000N) series 40 mil polyethylene liner.
1322327	828400	5/18/2020	CNX Gas Company LLC	Select Energy Services		426,834 – 1,737,811 gallons	The secondary containment will contain at least 110% of the MASS's capacity.	Solmax polyethylene liner.

1323911	835520	8/18/2020	Beech Resources LLC	ETC		1,375,220 gallons	The secondary containment mass is 1,613,974 gallons, 12' in height and diameter is 165' 9". Provides 117% of the capacity of the primary containment/tank system.	Solmax polyethylene liner.
1332852	827708	11/6/2020	CNX Gas Company LLC	ETC		421,640 – 2,639,809 gallons	The secondary containment will contain at least 110% of the MASS's capacity.	Solmax polyethylene liner.
1361642	781204	7/12/2021	INFLECTION ENERGY (PA) LLC	EPIC 360 (ETC)		40,000 bbl (1,680,000 gal)	The secondary containment mass is (46k bbl) 1,932,000 gallons, 12' in height and diameter is 165' 75", with the same design specifications as the primary tank, including a third 40 mil HDPE secured liner. Provides 110% of the capacity of the primary containment/tank system.	The tank is lined with a 40-mil linear low density polyethylene synthetic liner.
1362379	838555	7/22/2021	CNX Gas Company LLC	Select Energy Services		426,834 – 1,737,811 gallons	The secondary containment will contain at least 110% of the MASS's capacity.	Solmax polyethylene liner.

1369467	830194	9/15/2021	Repsol Oil & Gas USA LLC	Comtech Industries, Inc.	DynaTank	1,082,430 gallons	A Poly Dike wall containment system creating 5-foot high walls with a 100-mil polyethylene liner draped over it to meet >110% of the capacity of the tank.	New Pig Energy - PIG Well Pad Liner (MSD-211) 100 mil polyethylene liner.
1376000	763061	10/8/2021	PENNENERGY RESOURCES, LLC	Rockwater Energy Solutions		1,319,700 gallons	The secondary containment mass is 1,421,700 gallons, 12' in height and diameter is 153'. Provides 110% of the capacity of the primary containment/tank system.	Solmax polyethylene liner.
1395236	781283	4/21/2022	Lola Energy Petroco LLC	Well Water Solutions and Rentals, Inc.		13k bbl	The secondary containment mass is 17k bbl, 12' in height and diameter is 101'4".	The tank is lined with a 30-mil linear low density polyethylene synthetic liner.
1395775	819382	5/2/2022	Repsol Oil & Gas USA LLC	Comtech Industries, Inc.	DynaTank	1,082,328 gallons	A Poly Dike wall containment system creating 5-foot high walls with a 100-mil polyethylene liner draped over it to meet >110% of the capacity of the tank.	New Pig Energy - PIG Well Pad Liner (MSD-211) 100 mil polyethylene liner.