Attachment 1

Product Information PERMALON[®] Ply X-210

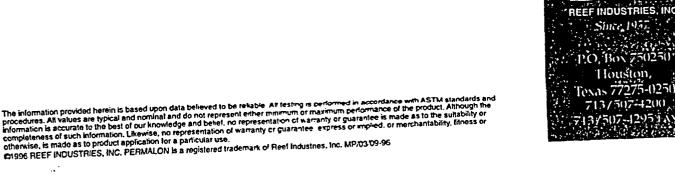
PRODUCT INFORMATION

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PERMALON[®] PLY X-210[®]

- High density, cross-laminated polyethylene resists punctures and tears.
- UV stabilized to withstand prolonged exposure to sunlight.
- Ply X-210 is not prone to environmental stress-cracking (ESC) so it can endure repeated thermal expansion & contraction cycles.
- Meets ASTM standard D-3083 Soil Burial test performance requirements.

PHYSICAL PRO	PERT	IES AND	TYPICAL	VALUES
PROPERTY		ASTM TEST METHOD	US VALUE	METRIC VALUE
THICKNESS		D-4801	20 MIL	.50 мм
WEIGHT		D-3776	68 LB/1000 FT	33 KG/100 M ²
			9.9 oz/yd:	335 GM/M ²
TENSILE STRENGTH	MD	D-882	66 LBF	294 N
	PSI		3660 PSI	25.2 Mpa
	TD		58 LBF	258 N
	PSI		3170 PSI	21.9 MPA
TENSILE ELONGATION	MD	D-882	700 %	700 %
	TD		400 %	400 %
TONGUE TEAR	MD	D-751B	37.5 LBF	167 N
	TD		31.5 LBF	140 N
PPT RESISTANCE	MD	D-2582	48.2 LBF	214 N
	TD		44.3 LBF	<u>197 N</u>
TRAPEZOIDAL TEAR	MD	D-4533	62 LBF	276 N
	TD		77.3 LBF	<u>344 N</u>
DART IMPACT STRENGTH		D-1709	3.01 LBS	1.36 кс
PUNCTURE RESISTANCE		D-4833	42.4 LBS	189 N
COLD IMPACT STRENGTH		D-1709MOD	-80°F	-60°C
CARBON BLACK CONTENT		D-1603	>2.0 %	>2.0 %



Call today for technical assistance or to place your order. 800/231-6074

SOIL BURIAL TEST

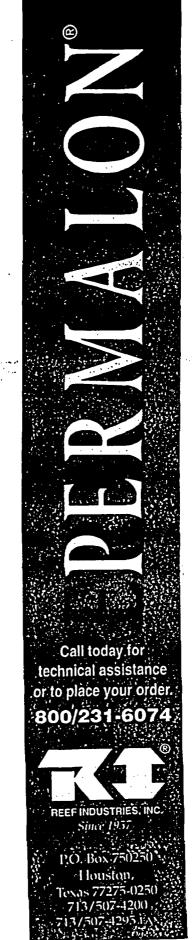
PERMALON[®] X-150[®], X-210[®] AND X-210G[®]

Permalon X-150, X-210 and X-210G materials were subjected to a 30 day soil burial test following standards and procedures as outlined in ASTM D-3083, Section 9.5. Results of this test are outlined below.

		PERMAL	ON X-150	
TEST METHOD		INITIAL VALUE	AFTER BURIAL TEST	% DECREASE
TENSILE @YIELD	MD	39 LBS	39 LBS	-
1	TD	52 LBS	52 LB	•
TENSILE @BREAK	MD	67 LBS	64.5 LBS	3.7 %
	TD	83 LBS	83.5 LBS	-
ELONGATION	MD	900 %	900 %	•
l	TD	810 %	810 %	6.4 %

		PERMAL	ON X-210	
PROPERTY		INITIAL VALUE	AFTER BURIAL TEST	% DECREASE
TENSILE @YIELD	MD	85 LBS	98 LBS	•
	TD	95 LBS	101 LBS	-
TENSILE @BREAK	MD	131 LBS	123 LBS	6%
	TD	143 LBS	138 LBS	3.5 %
ELONGATION	MD	900 %	900 %	•
	TD	740 %	750 %	-

PERMALON X-210G				
PROPERTY		INITIAL VALUE	AFTER BURIAL TEST	% DECREASE
TENSILE @YIELD	MD	290 LBS	290 LBS	•
	TD	259 LBS	260 LBS	-
TENSILE @BREAK	MD	156 LBS	142 LBS	9 %
	TD	155 LBS	140 LBS	9%
ELONGATION	••	900 %	900 %	•



The information provided hursen is based upon data believed to be reliable. At testing is performed in accordance with ASTM atandards and procedures. All values are typical and nominal and do not represent either minimum or maximum performance of the product. Although the information is accurate to for knowledge and belief, no representation of warranty or guarantee is made as to the suitability or completeness of such information. Likewise, no representation of warranty or guarantee, excress or impled, or merchantability, litness or otherwise, is made as to product application for a particular use. C01996 REEF INDUSTRIES, INC. PERMALON is a registered trademark of Reef Industnes, Inc. MP.03/09-96

Attachment 2

Stormwater Runoff Calculations for Processing Pad and Yellowcake Storage Pad

ENTZ ENGINEERING AND ASSOCIATES CONSULTING ENGINEERS – SURVEYORS

600 EMPORIA STREET - SUITE "C" - P. O. BOX 1385 MUSKOGEE, OKLAHOMA 74402-1385- (918) 682-3832

STORM WATER RUNOFF SEQUOYAH FUELS YELLOW CAKE AREA

Based on the topography survey performed by Huffman Surveying Company, we have made runoff determinations as follows:

1. The processing pad west of the yellow cake area will be separated from the larger concrete area by a small berm. This area is less than 0.5 acres an produces 15,953 cubic feet of runoff in a storm of 100-year frequency. This area drains directly into the ponds to the west and will raise their level less than 6 inches which added to the 9.5 inches falling directly into the pond during the storm will require 15.5 inches of freeboard. Please refer to the attached SCS runoff hydrograph plot.

2. The larger yellow cake area has 3.47 acres draining into a 48" square grate at the southwest corner. This grate has been modified by providing 1.0 square foot of opening on each side to eliminate the problem of debris stopping the flow. The dike around the south and west sides of this area provides 1889 cubic yards or 51,000 cubic feet of storage at elevation 565.35. This storage in addition to the flow through the modified grate is more than adequate to discharge the 100-year storm frequency which peaks at 43.04 cfs as shown on the attached SCS runoff hydrograph plot.

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Hydrograph Plot

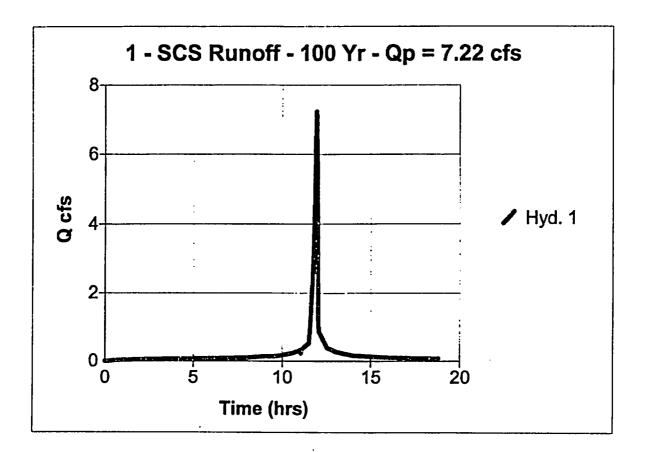
Hyd. No. 1

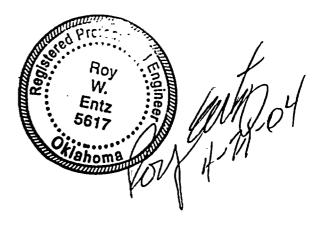
Seq Fuels W. of Yellow Cake Area

= SCS Runoff = 100 yrs = 0.50 ac = 4.8 % = LAG = 9.50 in
= 9.50 in = 24 hrs

Peak discharge= 7.22 cfsTime interval= 1 minCurve number= 99Hydraulic length= 230 ftTime of conc. (Tc)= 1.9 minDistribution= Type IIShape factor= 484

Total Volume = 15,953 cuft





English

Hyd. No. 1

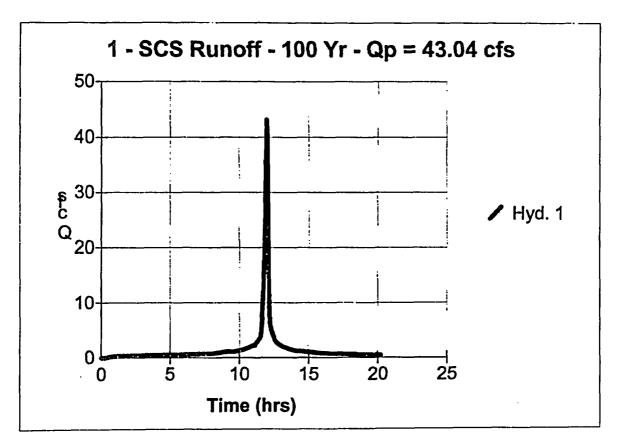
Seq. Fuels Yellow Cake Area

Hydrograph type	= SCS Runoff
Storm frequency	= 100 yrs
Drainage area	= 3.47 ac
Basin Slope	= 0.9 %
Tc method	= LAG
Total precip.	= 9.50 in
Storm duration	= 24 hrs

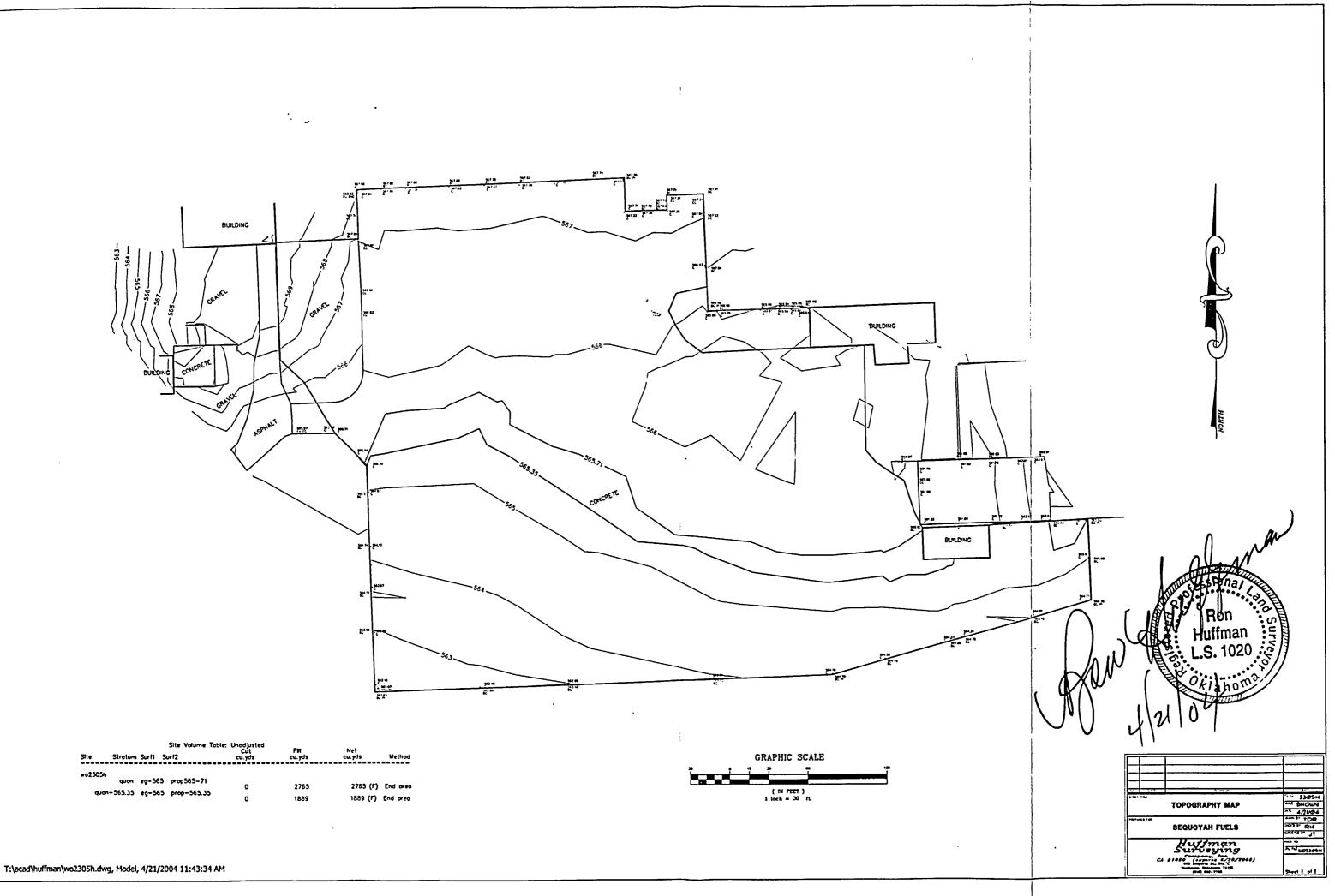
Peak discharge= 43.04 cfsTime interval= 2 minCurve number= 99Hydraulic length= 450 ftTime of conc. (Tc)= 7.8 minDistribution= Type IIShape factor= 484

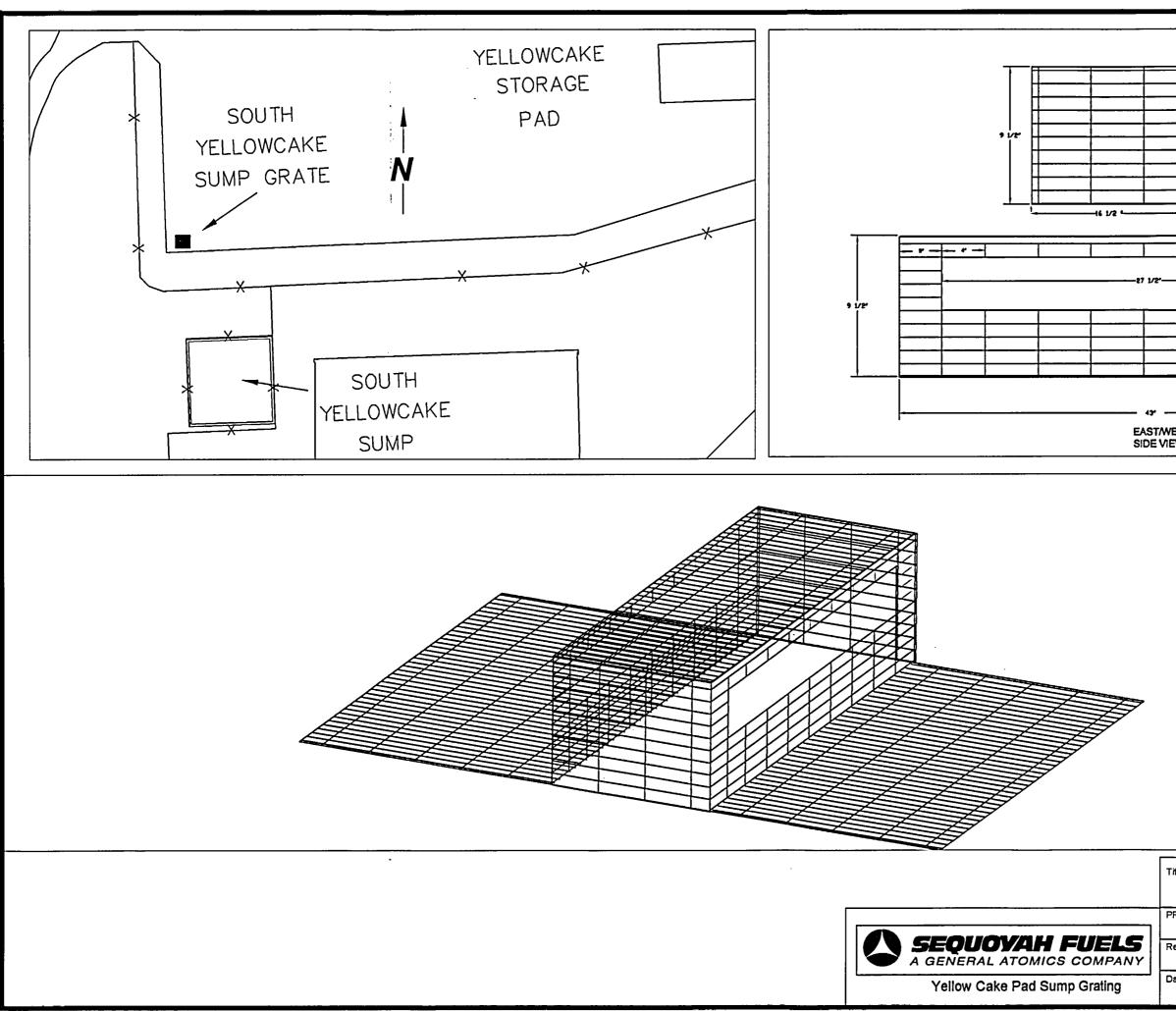
Total Volume = 118,150 cuft

English









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