

TALISMAN
ENERGY

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August 22, 2012

Ms. Jaclyn A. Brillling, Secretary
New York State Public Service Commission
Empire State Plaza, Agency Building 3
Albany, NY 12223-1350

RE: Broz Compressor Replacement Case # 12-T-0033

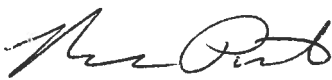
Dear Secretary Brillling:

Enclosed herewith is Technical Report AA-2180 showing compliance with the certificate regarding sound received at the nearest residences to the Broz Compressor Site.

Talisman Energy USA intends to begin full time operations of the upgraded facility once the Secretary's Office has received this notice.

Contact me at npiet@talismanusa.com or 607-562-4041 with any questions.

Sincerely,



Nicholas Piet
Operations Engineer
Talisman Energy USA, Inc.



ANGEVINE ACOUSTICAL CONSULTANTS, Inc.

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Technical Report AA-2180

**Compliance with Limits to Sound Received
at Nearest Residences after Replacement
of Equipment at Broz Compressor Site**

**Prepared for
Talisman Energy USA Inc.
337 Daniel Zenker Drive
Horseheads, NY 14845**

Prepared by: John J. Earshen

August 20, 2012

12T142



ANGEVINE ACOUSTICAL CONSULTANTS, Inc.

Technical Report AA-2180

Compliance with Limits to Sound Received at Nearest Residences after Replacement of Equipment at Broz Compressor Site

SUMMARY

The Talisman Compressor facility is located in the Town of Veteran at the Broz site. It is a central gathering point for the Varney Hill system. Talisman has determined that there is continuing natural decline in reservoir pressure at the Broz site. Accordingly additional compression is required to ensure maximum ultimate recovery of natural gas from the reservoir. This will enable lowering pressure on the entire source field and enable continued production of wells until abandonment.

In order to maximize reserve recovery, a new compressor and a dehydration unit have been installed. Replacement has been made with a new compressor model having nearly half the horse power of the prior unit. In addition, the previously oversized dehydration unit has been replaced and relocated adjacent to the compressor location. The previously installed compressor assembly and housing have been removed.

The replacement equipment has been installed in a previously existing vacant housing neighboring the removed compressor assembly. A barrier has been installed at the west end of the new installation to provide sound shielding to the nearest residence located to the west of the newly installed compressor assembly. There will be no additional clearing or expansion of equipment required at the present site.

Exploratory surveys were made during daytime hours of sounds generated by the replaced installations at the nearest residences and surrounding areas. Figure 1 shows a map of the surrounding area about the compressor site and residences locations,

Table 1 lists received levels at three closest surrounding residences.

Table 1	
<u>Locations</u>	<u>Sound Level dBA</u>
1. Nancy Kohler (at entry to compressor site)	40.9
2. Barney Broz, Jr. (Veteran Hill Rd.)	40.1
3. Robert Knapp (Beardsley Hollow Rd.)	40.6

The received sound levels at the neighboring residences were found to be in compliance with the regulatory 40 dBA.

FINDINGS AND DISCUSSION

Surveys were performed with a Larson-Davis Model 831 precision integrating sound level meter, serial number 0001057. This instrument complies with specifications of ANSI S1.4-1983 (R2006) for type 1 precision grade sound level meters. The instrument was field calibrated before and after each field survey using a CEL Model 284/2 acoustic calibrator, serial number 4/09921209, complying with ANSI S1.40-1984 (R2006).

Final measurements with the Broz site in full operation were made on Tuesday, August 14, 2012, during the afternoon. Wind velocities were gusting under 5 mph.

Figure 1 shows the locations of the three residences and the Broz compressor. Residence 1 is approximately 750 feet from the compressor. Residence 2 is on Veteran Hill Road at a distance of 1590 feet from the compressor. Residence 3 is near the junction of Beardsley Hollow Road and Terry Hill Rd. and is 2000 feet from the compressor.

To aid interpretation of background of sound levels in areas at distances greater than 2000 ft. examine Figure 1. The southern end of Veterans Hill Rd. shown in the figure is approximately 3800 feet south of the Broz compressor site center. To enable measurements of background sound levels free of contributions from the compressor, measurements were made further south (approximately 4000 ft). Sequential measurements made when there were no recognizable audible types of sources (i.e., cars, farm equipment, aircraft) discovered 38.4 to 40.2 dBA. It was evident that daytime measurements were feasible.

For reference on locations of noise source components at the Broz site see Figures 3 to 6.

Comparing information from Figures 3 and 6 shows that the sound barrier is identifiable in 3 but not in 6. The barrier was not installed when the figure 6 picture was taken.

CONCLUSIONS

1. Current received sound at neighboring residences is compliant with the 40 dBA limit.
2. The properties of sound from the compressor source are audibly recognizable even at levels below 40 dBA. It is therefore possible to differentiate between background and compressor sounds.

ANGEVINE ACOUSTICAL CONSULTANTS, Inc.



Prepared by:

John J. Earshen
Senior Acoustical Consultant

JJE:dmf
8/14/12
Att. fig. 1-6

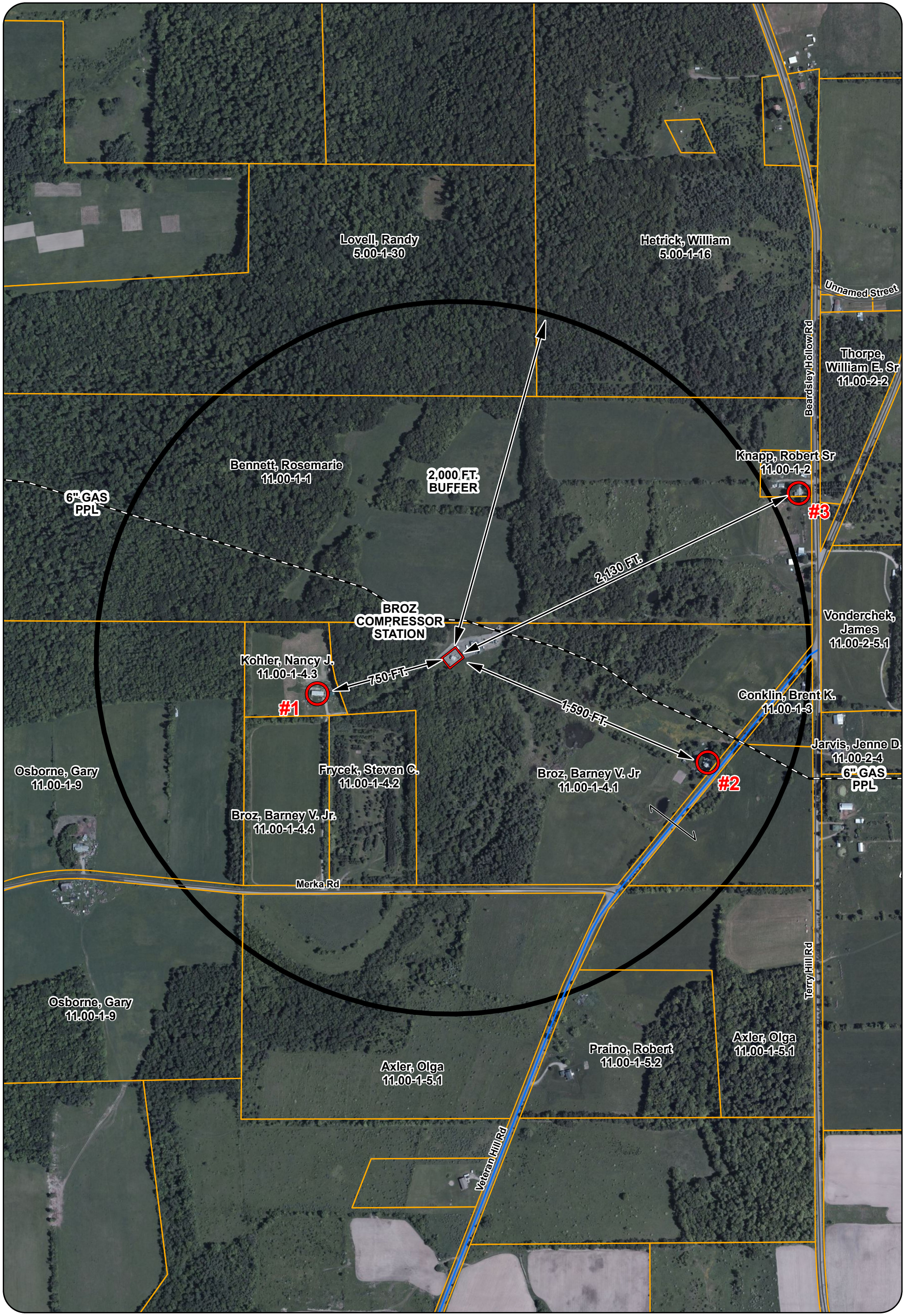
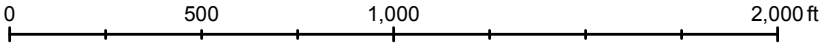


FIGURE #1:
TEUSA - BROZ COMPRESSOR SITE
- LOCATION MAP WITH 2000 FT. BUFFER -
USGS 7.5 Min. QUAD: MONTOUR FALLS, NY.
TOWN OF VETERAN, CHEMUNG COUNTY, NY.



Broz Compressor – New Equipment Layout

Figure 2

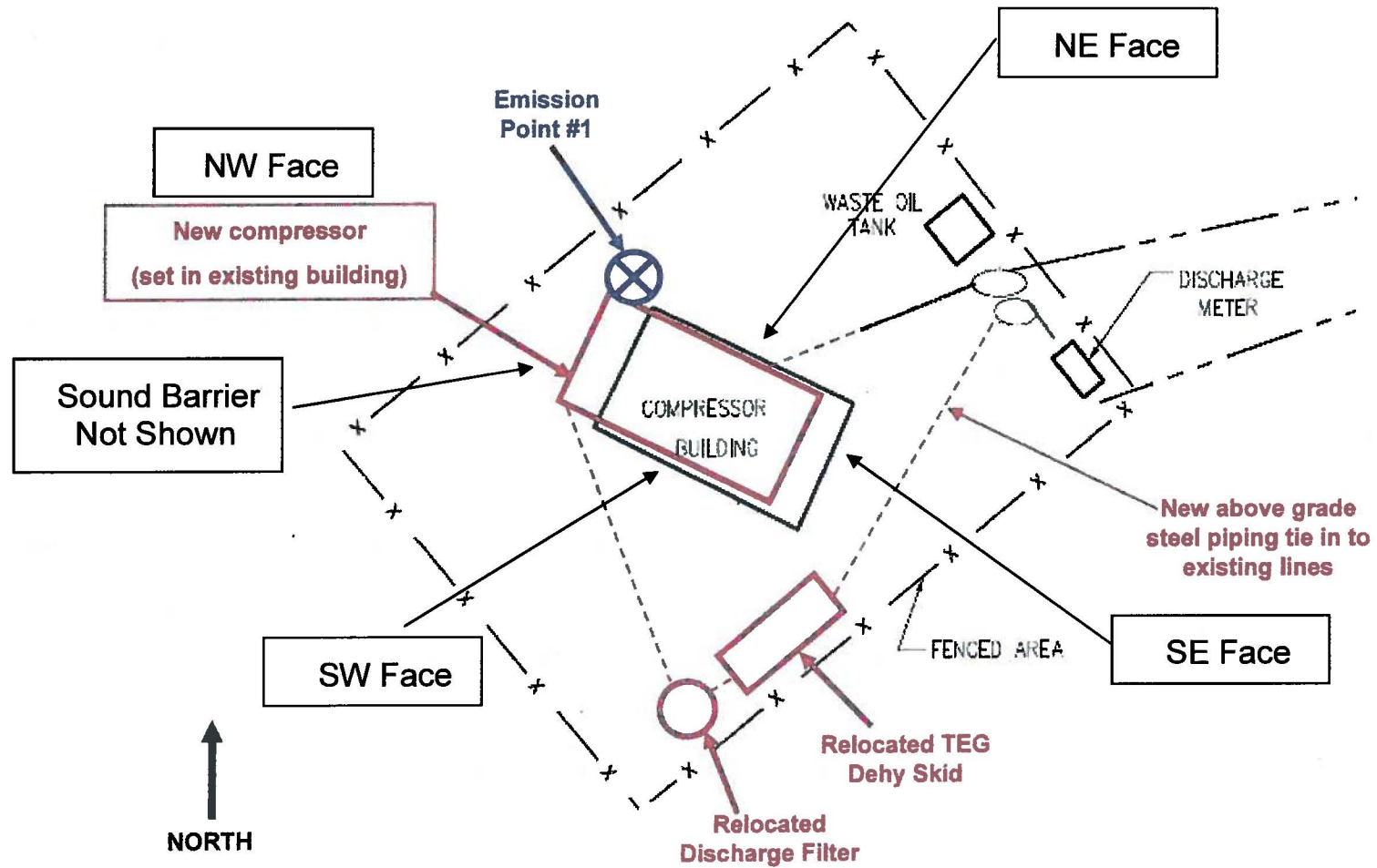




Figure 3. NW Face
Sound Barrier Shown

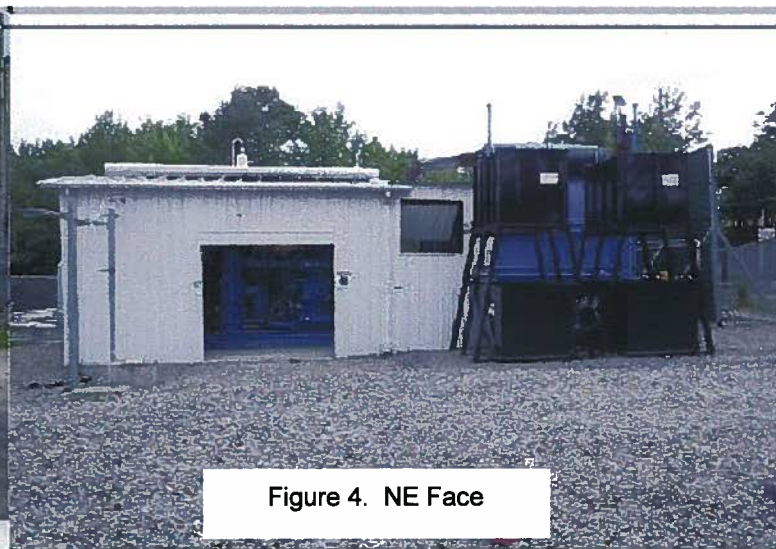


Figure 4. NE Face

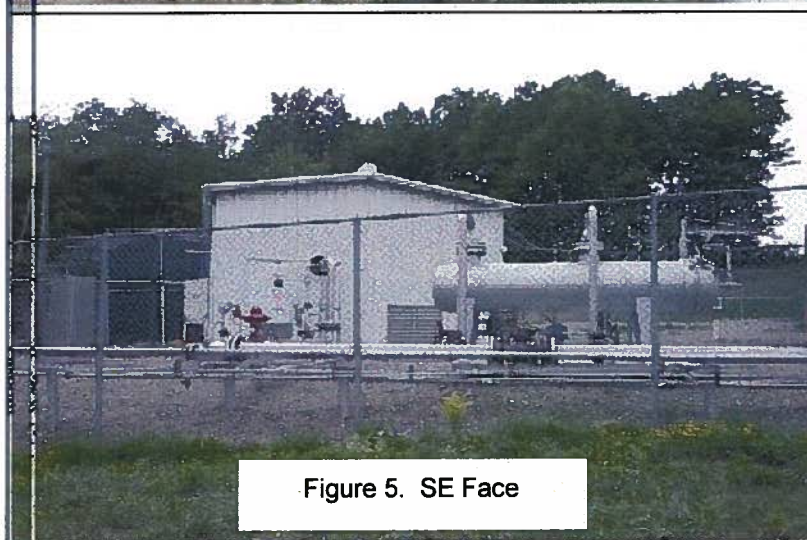


Figure 5. SE Face

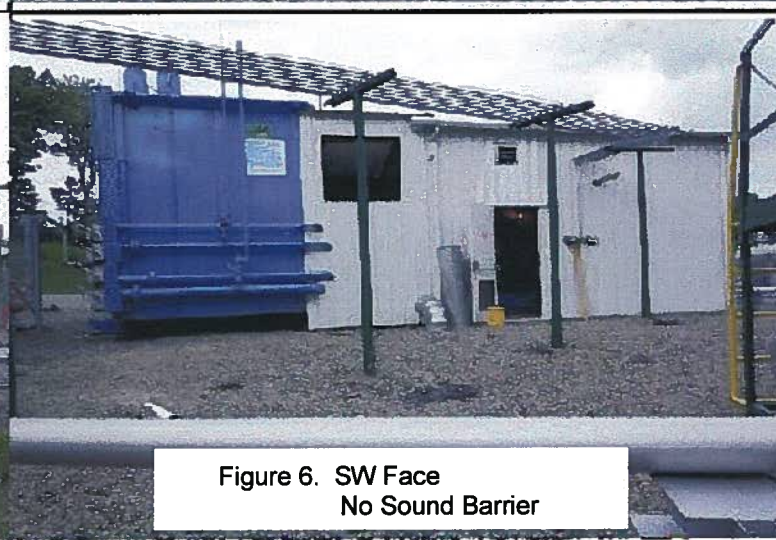


Figure 6. SW Face
No Sound Barrier

Broz Compressor Station
8-14-25012