City of Garden Ridge

"A way of life, not just a place to live"

QUARRY COMMISSION
REGULAR MEETING
MONDAY, NOVEMBER 5, 2018, 6:00 P.M.

The Garden Ridge City Quarry Commission will meet in a regular session on Monday, November 5, 2018 at 6:00 p.m. in the City Council Chambers, 9400 Municipal Parkway, Garden Ridge, Texas. This is an open meeting, open to the public, subject to the Open Meetings Law of the State of Texas, and as required by law, notice is hereby posted on or before November 2, 2018 before 5:00 p.m., providing time, place, date and agenda thereof. The meeting facility is wheelchair accessible and accessible parking spaces are provided. Requests for accommodations or interpretative services must be made to the City Secretary 48 hours prior to this meeting.

1. **Call to Order**

2. **Roll Call**

3. **Pledge of Allegiance**

4. **Citizens Comment Period – limited to 30 minutes total**
Rules for Citizens' Participation:
The Quarry Commission welcomes citizen participation and comments at all Quarry Commission Meetings. The Quarry Commission offers citizens the opportunity to address them by signing up to speak prior to the meeting. If you speak, you follow these guidelines:
   a) Respect and courtesy:
      i. Direct your comments to the entire Quarry Commission, not to an individual member, nor to the audience.
      ii. Show the Quarry Commission the same respect that you would like to be shown.
      iii. End your speaking at the time allotted below.
   b) Speaking:
      i. First citizen comment period
         1. You are required to sign up to speak.
         2. You are limited to one 3 minute period.
      ii. Business item period
         1. You are required to sign up to speak.
         2. You are limited to one 3 minute period.
      iii. Second citizen comment period
         1. You are not required to sign up.
         2. You are limited to one 2 minute period.
      iv. State your name and address before your comments begin.
      v. You are only allowed to speak once per topic, unless also speaking during a posted Public Hearing.

   NOTE: The Texas Open Meetings Act permits a member of the public or a member of the governmental body to raise a subject that has not been included in the notice for the meeting.
   However, any discussion of the subject ***must be limited*** *to a proposal to place the subject on the agenda for a future meeting and any response to a question posed to the Commission is limited to either a statement of specific factual information or a recitation of existing policy.* TEX. GOV'T CODE § 551.042.

5. **Business Items**

The Commission may discuss, consider/or take possible action on the following items:

a) Approvals
   i. Approval of Minutes for September 10, 2018, Quarry Commission Regular Meeting.

b) Recommendations
   i. Receive recommendations and consideration of appointment of Quarry Commission Chair and Vice-Chair for a one-year term.

c) Discussions/Reports/Reviews
   i. Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratech. Discussion with Hanson Servtex and Blasting contractors, on recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.

   ii. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commission member contact with citizen/s, as necessary.

   iii. Discussion on number of, placement and location of monitors and other matters related to monitoring of blasts by Vibratech and notification to residents of monitor placements. Discuss placement of roving monitor which is currently at the Davis residence.

   iv. Discussion concerning the Briggs Pit located off Marbach Lane outside of Garden Ridge City limits.

   v. Discussion concerning Vulcan Materials Quarry at the intersection of SH 46 and FM 3009 outside of Garden Ridge City limits.

d) Updates
   i. City Council October 3, 2018, Regular Meeting.

e) Future Agenda Items.
   i. Commissioners input for items on upcoming agendas.
   ii. Update on future education/training sessions and Grapevine articles.
   iii. Announcement of next Regular Meeting -Monday, January 14, 2018, at 6:00 p.m. at City Hall.

f) Education/Training – limited to 20 minutes
   i. Question and answer session with Vibratech, Hanson representatives, blasting contractor(s), and the public.

6. **Citizen's Participation: - limited to 20 minutes total**
   See "Rules for Citizen's Participation" under Item 4.

7. **Adjournment**

AGENDA NOTICES:

Decorum Required:
Any disruptive behavior, including shouting or derogatory statements or comments may be ruled out of order by the Presiding Officer. Continuation of this type of behavior could result in a request by the Presiding Officer that the individual leave the meeting, and if refused, an order of removal.

Action by Commission Authorized:
The City Quarry Commission may vote or act upon any item within this Agenda. The Commission reserves the right to adjourn into closed session at any time during the course of this meeting to discuss any of the matters listed above, as authorized by Title 5, Chapter 551, of the Texas Government Code.

Executive Sessions Authorized:
This agenda has been reviewed and approved by the City's legal counsel and the presence of any subject in any Executive Session portion of the agenda constitutes a written interpretation of Texas Government Code Chapter 551 by legal counsel for the governmental body and constitutes an opinion by the attorney that the items discussed therein may be legally discussed in the closed portion of the meeting considering available opinions of a court of record and opinions of the Texas Attorney General known to the attorney. This provision has been added to this agenda with the intent to meet all elements necessary to satisfy Texas Government Code Chapter 551.144(c) and the meeting is conducted by all participants in reliance on this opinion.

Attendance By Other Elected or Appointed Officials:
It is anticipated that members of the other city boards, commissions and/or committees may attend the meeting in numbers that may constitute a quorum of the other city boards, commissions and/or committees. Notice is hereby given that the meeting, to the extent required by law, is also noticed as a meeting of the City Council, other boards, commissions and/or committees of the City, whose members may be in attendance. The members of the boards, commissions and/or committees may participate in discussions on the same items listed on the agenda, which occur at the meeting, but no action will be taken by such in attendance unless such item and action are specifically provided for on an agenda for that board, commission or committee subject to the Texas Open Meetings Act.

Marisa Spencer
Interim City Secretary

This is to certify that I, Marisa Spencer, posted this Agenda at 5:30 p.m. on October 29, 2018, on the bulletin board located at the entrance to the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas.

Marisa Spencer
Interim City Secretary

MINUTES
QUARRY COMMISSION REGULAR MEETING
MONDAY, SEPTEMBER 10, 2018, 6:00 P.M.

Commissioners Present:
Chair Mike Shands
Vice Chair Wayne Mudge
Commissioner Jerry Barucky
Commissioner Richard Holloway
Commissioner Johnell Holly
Commissioner Albert Haddad
Commissioner Mark DuBois
Councilmember Bryan Lantzy, Ex-officio member

Commissioners Absent:
None

City Staff Present:
Nancy Cain, City Administrator
Shelley Goodwin, City Secretary
Marisa Spencer, Assistant City Secretary

Other City Councilmembers or Commissioners Present:
Mayor Thompson

1. Call to Order
With a quorum of the Quarry Commission Members present, Mike Shands, Chair, called the regular meeting of the Garden Ridge Quarry Commission to order at 6:00 p.m. on Monday, September 10, 2018, in the City Council Chambers of the Garden Ridge City Hall, 9400 Municipal Parkway, Garden Ridge, Texas, 78266.

2. Roll Call
See above

3. Pledge of Allegiance
Mike Shands, Chair, led the Pledge of Allegiance.

4. Citizens Comment Period – limited to 30 minutes total
No one signed up to speak.

5. Business Items
The Commission may discuss, consider/or take possible action on the following items:
a) Approvals
i.Approval of Minutes for July 9, 2018, Quarry Commission Regular Meeting.

Motion: A motion was made by Commissioner Holloway, seconded by Commissioner DuBois, to approve the July 9, 2018, Quarry Commission Regular Meeting Minutes. The Quarry Commission voted six (6) for, none (0) opposed. The motion carried unanimously.

ii. Expiring terms (September 30, 2018) of Commissioners (Commissioners Holly, DuBois, and Barucky).

1. Discuss eligibility due to term limits.

The Commission discussed the expiring terms of Commissioners Holly, DuBois, and Barucky. The Commission discussed Commissioner Holly's eligibility due to term limits. Shelley Goodwin, City Secretary, and Councilmember Lantzy reminded the Commission of the provision in Ordinance 210 regarding making a recommendation to City Council to waive the term limit for Commissioner Holly. Nancy Cain, City Administrator, expressed she has not received any applications of anyone showing interest to serve on the Quarry Commission. Commissioners Holly, DuBois, and Barucky expressed they would each like to serve again.

2. Recommendation to City Council for consideration of reappointment.

Motion: A motion was made by Commissioner Barucky, seconded by Commissioner DuBois, to recommend to City Council to waive the term limit in Ordinance 210 for Commissioner Holly to serve another term on the Quarry Commission. The Quarry Commission voted six (6) for, none (0) opposed. The motion carried unanimously.

Motion: A motion was made by Commissioner Haddad, seconded by Commissioner Holloway, to recommend to City Council reappointment of Commissioner DuBois and Commissioner Barucky to serve another term on the Quarry Commission. The Quarry Commission voted six (6) for, none (0) opposed. The motion carried unanimously.

b) Recommendations

i. Request from Buckley Powder Co., for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry for the period of October 1, 2018-September 30, 2019.

1. Review request and make recommendation to the City Council.

The Commission reviewed and discussed the permit application submitted from Buckley Powder Co. for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry. Steve Davis, Buckley Powder Co. Safety Manager, clarified discussions about the application. Nancy Cain, City Administrator, expressed that she reviewed the application and did not find anything outstanding.

Motion: A motion was made by Commissioner Holly, seconded by Commissioner Haddad, to recommend to City Council the approval of the request from Buckley Powder Co. for a Partial Exemption Permit to conduct blasting activities at the Hanson Quarry for the period of October 1, 2018-September 30, 2019. The Quarry Commission voted six (6) for, none (0) opposed. The motion carried unanimously.

c) Discussions/Reports/Reviews

i. Review and discussion on the monthly Hanson Quarry blasting analysis data reported by Vibratech. Discussion with Hanson Servtex and Blasting contractors, on recent quarry operations, including any unusual blasts that occurred during reported month/s and/or current month.

Nicholas Reittinger, Vibra-Tech, presented and discussed the July blast analysis. He stated that eighteen (18) shots occurred during the month of July and none of the blasts exceeded the limits of Ordinance 34. The highest PPV reading of 0.175 occurred on July 11, 2018, at the Warden

residence; the highest Air Overpressure of 118.0 dB occurred on July 27, 2018, at the Stewart Residence.

Nicholas Reittinger, Vibra-Tech, presented and discussed the August blast analysis. He stated that fifteen (15) shots occurred during the month of August and none of the blasts exceeded the limits of Ordinance 34. The highest PPV reading of 0.300 occurred on August 7, 2018, at the Warden residence; the highest Air Overpressure of 115.0 dB occurred on August, 13, 2018, at the Stewart residence.

ii. Review individual citizen blast report/s, follow up on citizen blast report/s and/or assign Quarry Commission member contact with citizen/s, as necessary.

Nicholas Reittinger, Vibra-Tech, discussed the citizen blast reports received for the months of June and July. He stated there were none for August. He thoroughly reviewed the citizen concerns and relevant blasts from Beverly Pickering, Karen McNealy, Nancy Ober, Steve Ober, Missy Lantzy, Karen Diaz, Beverly Pickering, Wayne Davis, Charles Scott, and Wayne Davis.

iii. Discussion on number of, placement and location of monitors and other matters related to monitoring of blasts by Vibratech and notification to residents of monitor placements. Discuss placement of roving monitor which is currently at the Stewart residence.

The Commission came to a consensus to relocate the roving monitor from the Stewart residence to the Davis residence.

d) Updates

i. City Council August 1, 2018, and September 5, 2018, Regular Meetings.

Nancy Cain, City Administrator, reported City Council approved the Partial Exemption Permit requested by Orica USA, Inc. on August 1, 2018, and that there were no updates from the September 5, 2018, regular meeting.

e) Future Agenda Items.

i. Commissioners input for items on upcoming agendas.

Commissioner Barucky expressed concerns regarding the Briggs Pit that is not in the City limits. He suggested the Commission begin discussing how to handle complaints and how to keep the community informed. Commissioner Barucky also wanted to add discussions regarding Vulcan Quarry Materials.

ii. Update on future education/training sessions and Grapevine articles.

The Commission requested that another "question and answer" open forum be held at the next meeting rather than a specific training session.

iii. Announcement of next Regular Meeting -Monday, November 12, 2018, at 6:00 p.m. at City Hall (Veteran's Day Holiday-move to November 5, 2018).

Motion: A motion was made by Commissioner DuBois, seconded by Commissioner Haddad, to move the Quarry Commission Regular Meeting from Monday, November 12, 2018, to November 5, 2018, due to the Veteran's Day Holiday. The Quarry Commission voted six (6) for, none (0) opposed. The motion carried unanimously. Mike Shands, Chair, announced the next regular meeting will be held on November 5, 2018.

f) Education/Training – limited to 20 minutes

i. Question and answer session with Vibratech, Hanson and the public.

Nolan Eckroade, Technical Services Engineer for Orica, presented an educational/training session (see attached). He also showed the video for the blast on June 13, 2018, that exceeded the limits of Ordinance 34 since the Commission previously requested to view the video.

6. Citizen's Participation: - limited to 20 minutes total

No one wished to speak.

7. Adjournment

Motion: A motion was made by Commissioner DuBois, seconded by Commissioner Haddad, to adjourn the Quarry Commission Regular Meeting. The Quarry Commission voted six (6) for, none (0) opposed. The motion carried unanimously. There being no further business, the Monday, September 10, 2018, Quarry Commission Regular Meeting was adjourned at 7:09 p.m. by Mike Shands, Chair.

_____
Mike Shands
Chair

ATTEST

_____
Marisa Spencer
Interim City Secretary

ELEVATED AIR OVER PRESSURE EVENT REVIEW

September 10, 2018

Nolan Eckroade, Technical Services Engineer

ORICA

6-13-2018 BENCH 5 BLAST – 129DB AOP

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FACE BLOWOUT EVENT

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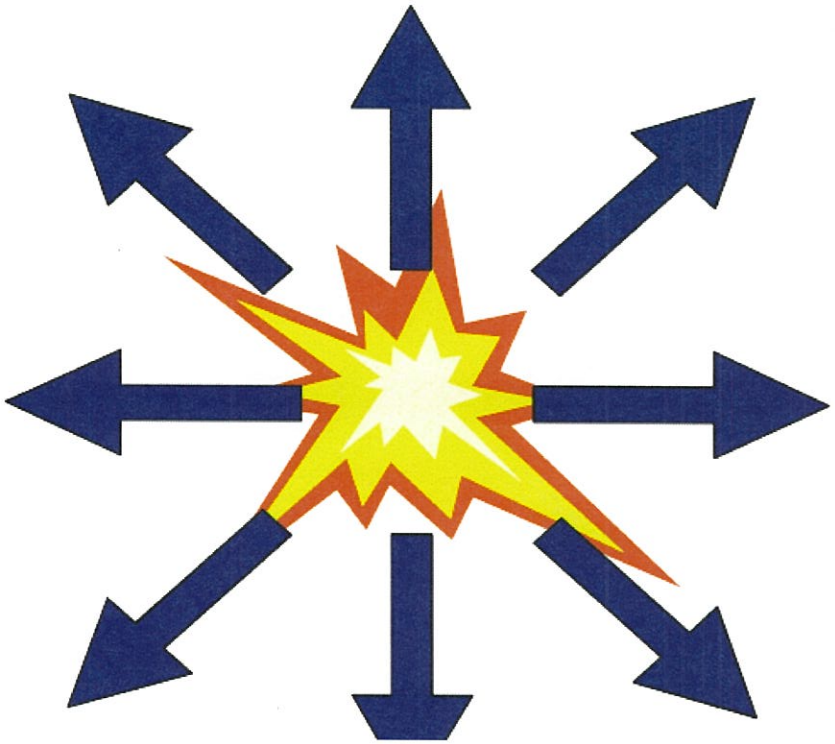
ENVIRONMENTAL EFFECTS OF BLASTING



Vibration:

Explosive energy released into the ground

Air Over Pressure (Air Blast):

Explosive energy released into the atmosphere

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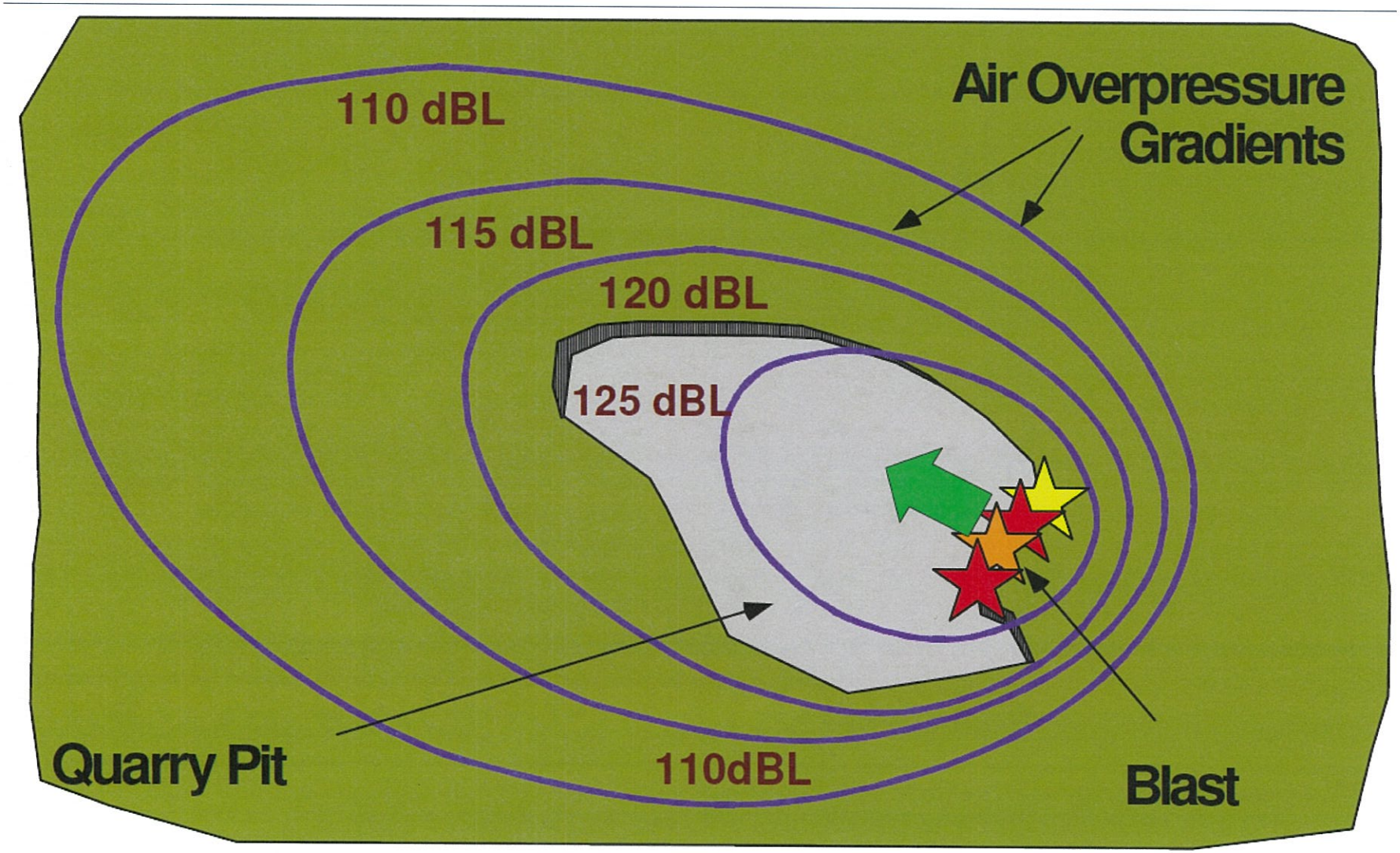
AIR OVER PRESSURE (AOP)



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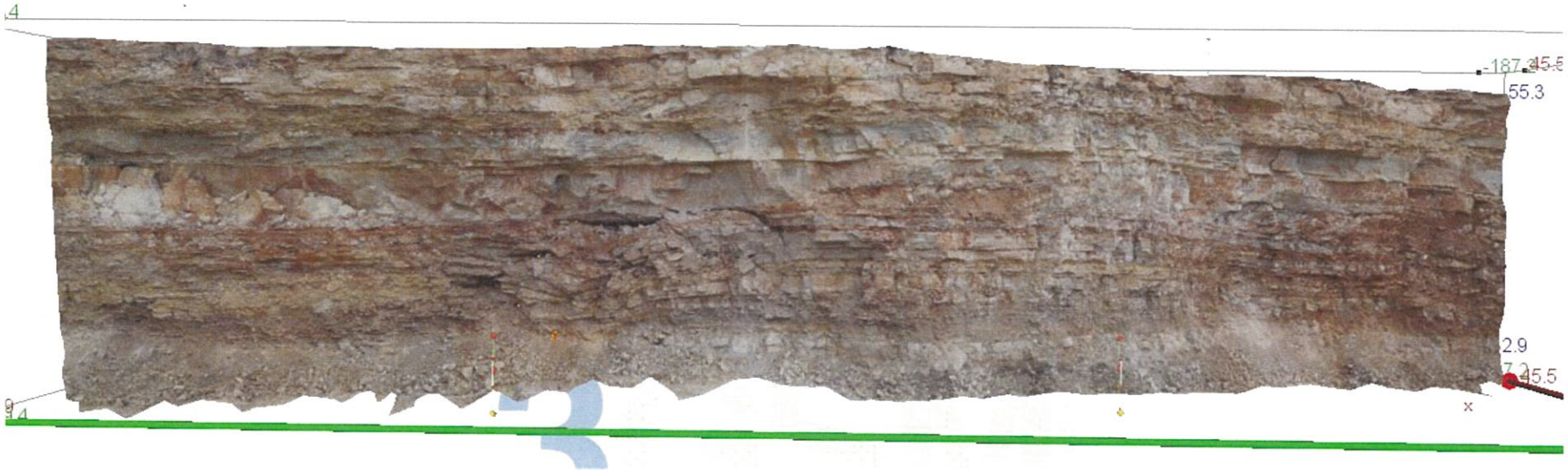
3D MODEL OF BLAST FACE



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3D MODEL OF BLAST FACE

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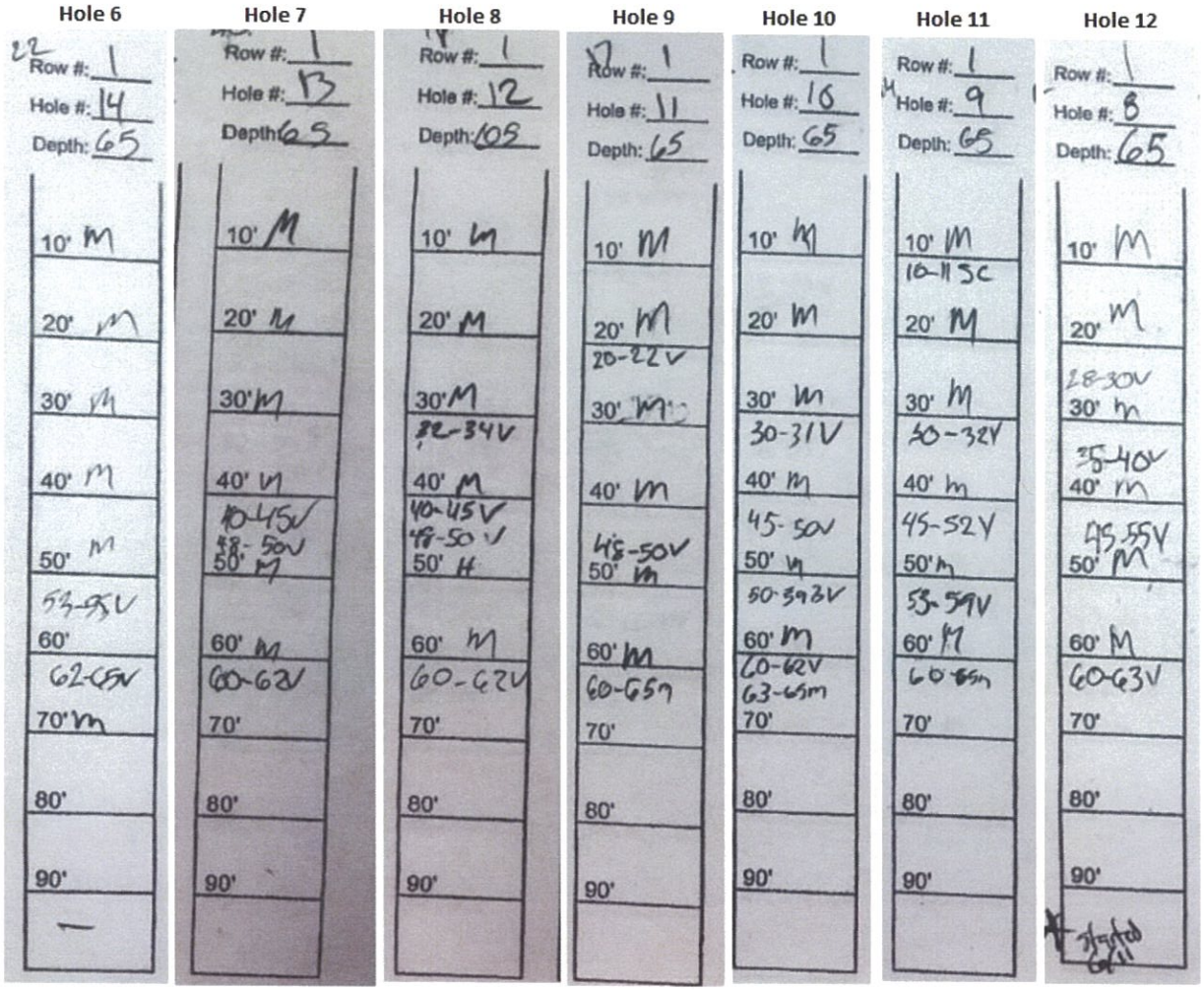
DRILL LOG INFORMATION – BLOWOUT AREA



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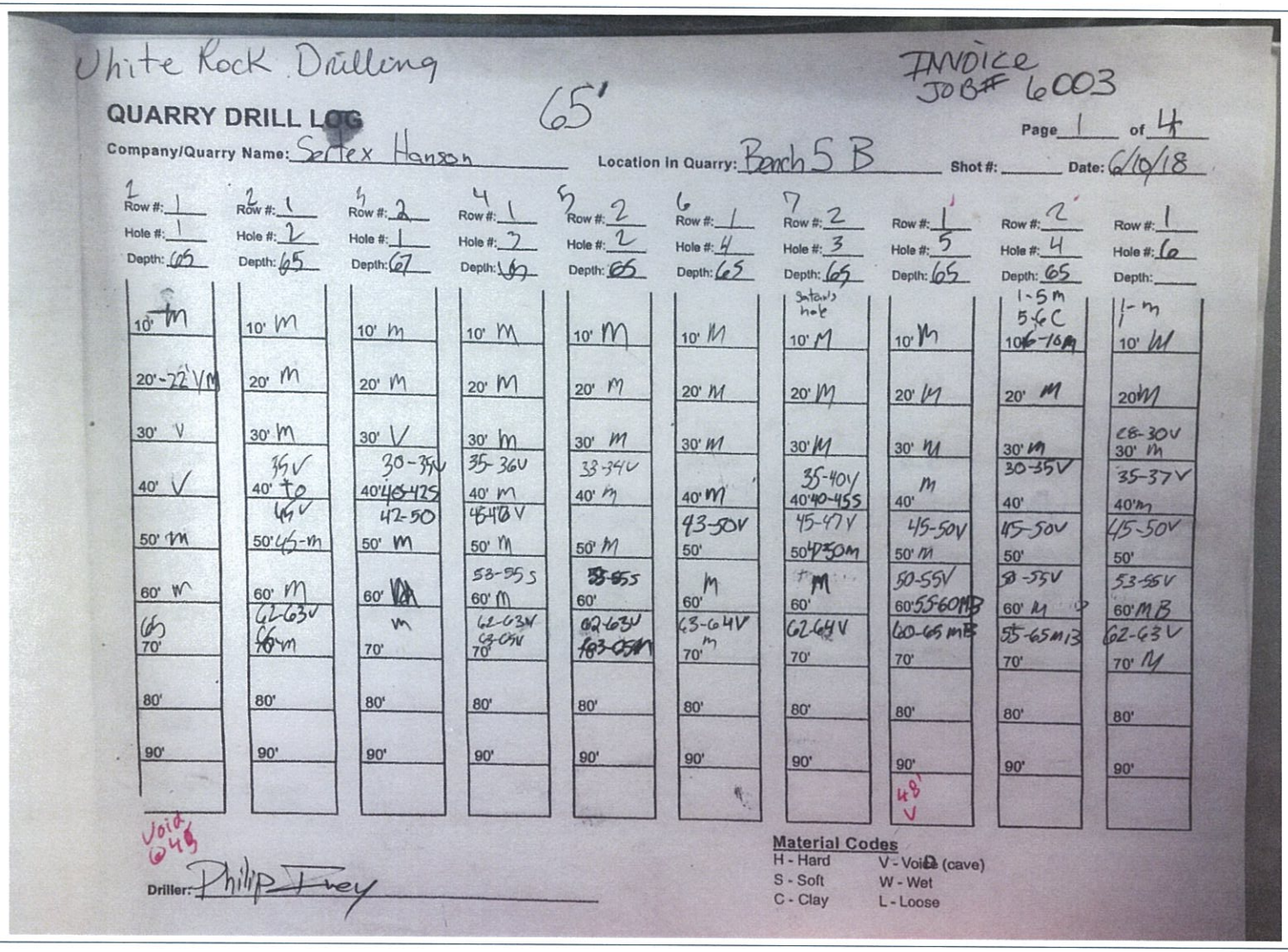
DRILL LOG INFORMATION – NON BLOWOUT AREA



White Rock Drilling

65'

INVOICE JOB# 6003

QUARRY DRILL LOG

Page 1 of 4

Company/Quarry Name: Sertex Hanson

Location in Quarry: Bench 5 B

Shot #: _____ Date: 6/10/18

1	2	3	4	5	6	7			
Row #: 1	Row #: 1	Row #: 2	Row #: 1	Row #: 2	Row #: 1	Row #: 2	Row #: 1	Row #: 2	Row #: 1
Hole #: 1	Hole #: 2	Hole #: 1	Hole #: 2	Hole #: 2	Hole #: 4	Hole #: 3	Hole #: 5	Hole #: 4	Hole #: 6
Depth: 65	Depth: 65	Depth: 67	Depth: 67	Depth: 65	Depth: 65	Depth: 65	Depth: 65	Depth: 65	Depth:
10' M	10' M	10' M	10' M	10' M	10' M	Straw's hole 10' M	10' M	1-5 M 5-6 C 10'-16' M	1-M 10' M
20' 22' V M	20' M	20' M	20' M	20' M	20' M	20' M	20' M	20' M	20' M
30' V	30' M	30' V	30' M	30' M	30' M	30' M	30' M	30' M	28-30V 30' M
40' V	35V 40' to 46V	30-35V 40' 40-42S 42-50	35-36V 40' M	33-34V 40' M	40' M	35-40V 40' 40-45S	M 40'	30-35V 40'	35-37V 40' M
50' M	50' 45-M	50' M	45-48V 50' M	50' M	43-50V 50'	45-47V 50' 50M	45-50V 50' M	45-50V 50'	45-50V 50'
60' M	60' M	60' M	53-55S 60' M	55-55S 60'	M 60'	M 60'	50-55V 60' 55-60MB	50-55V 60' M	53-55V 60' MB
65 70'	62-63V 66' M	M 70'	62-63V 63-65V 70'	62-63V 63-65M 70'	63-64V M 70'	62-64V 70'	60-65 MB 70'	55-65 M B 70'	62-63V 70' M
80'	80'	80'	80'	80'	80'	80'	80'	80'	80'
90'	90'	90'	90'	90'	90'	90'	90' 48' V	90'	90'

Void 6-4-18

Driller: Philip Tvey

Material Codes

H - Hard	V - Void (cave)
S - Soft	W - Wet
C - Clay	L - Loose

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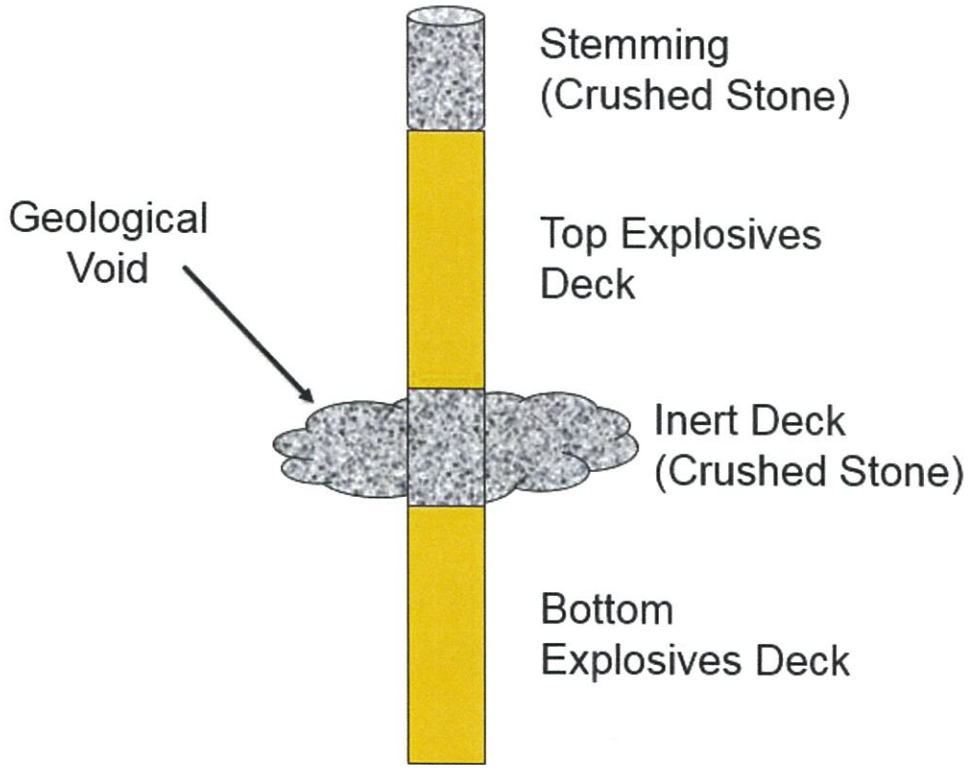
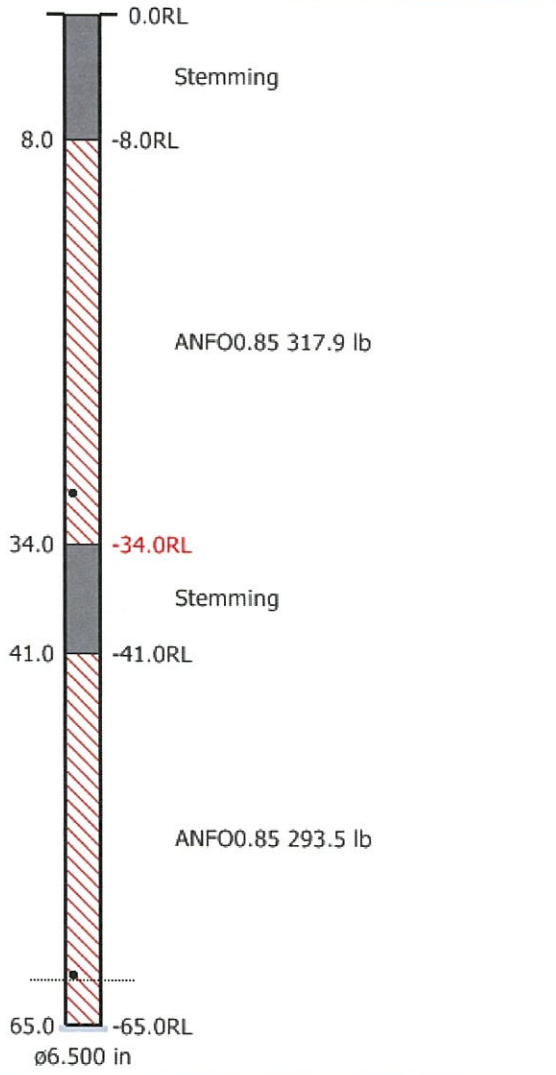
DECKING THROUGH VOID AREAS





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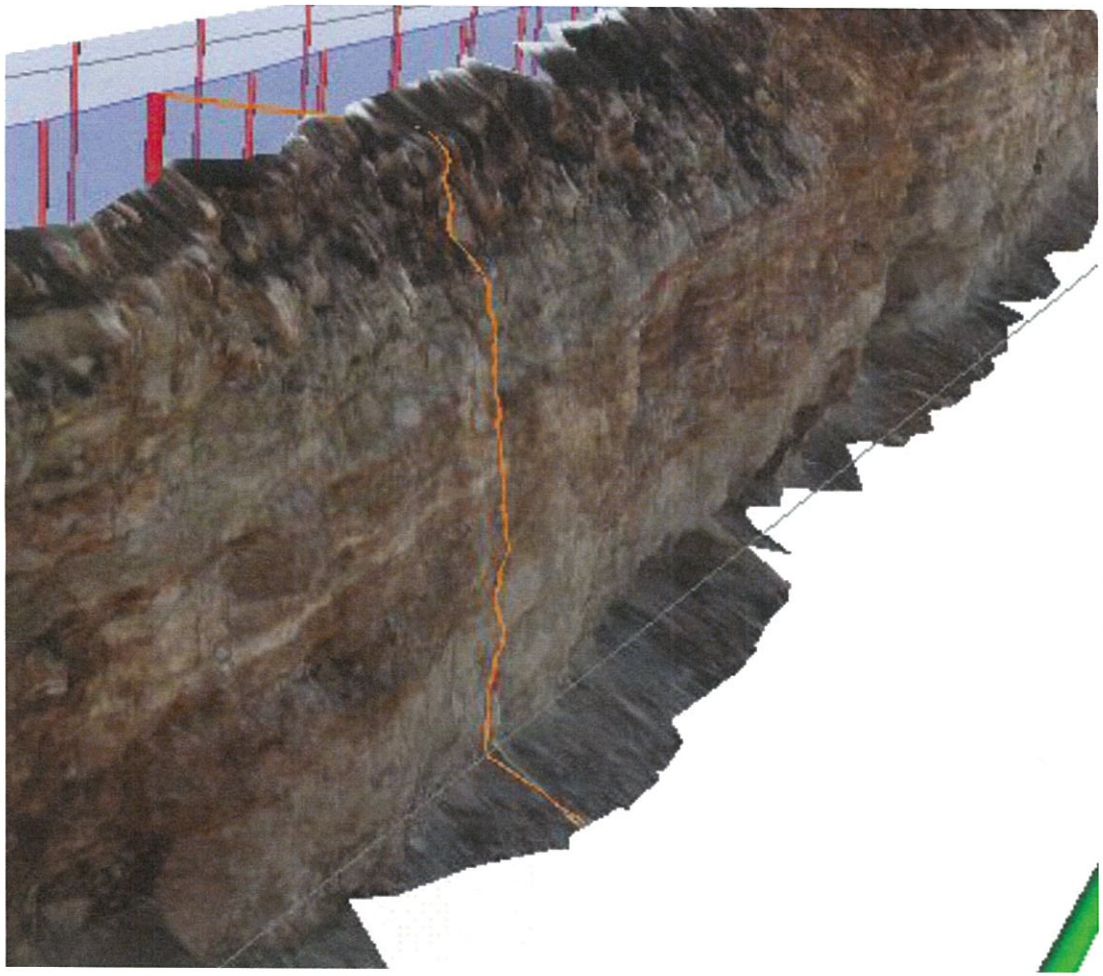
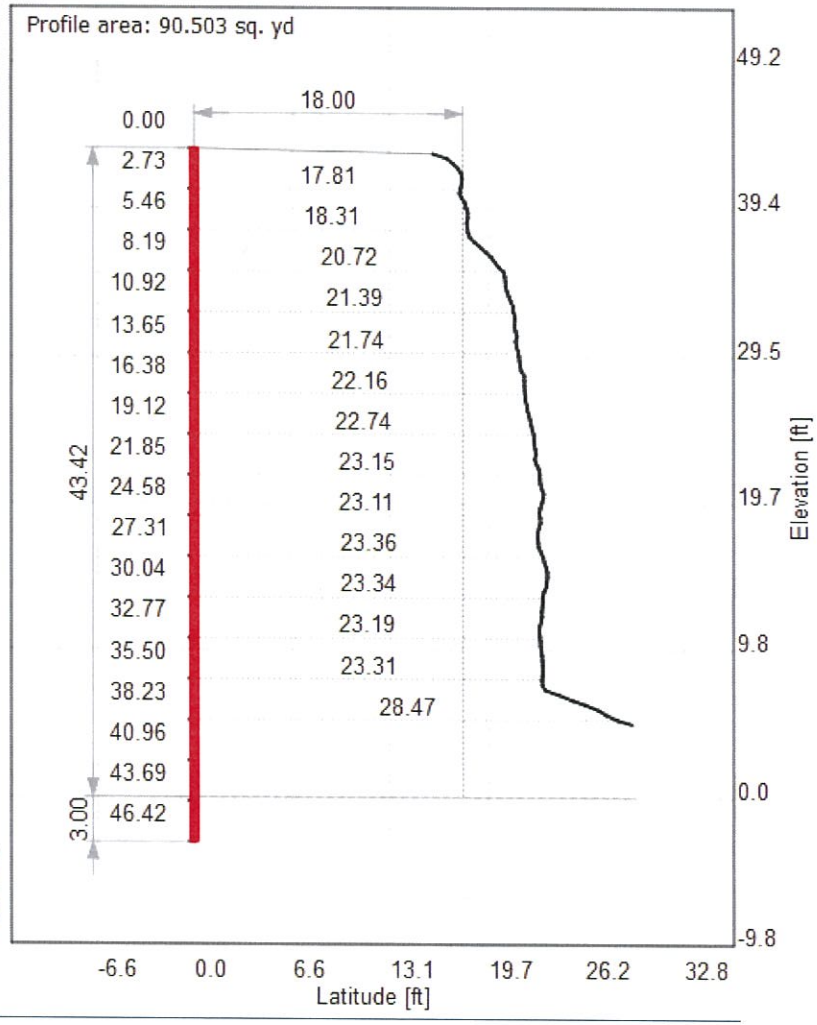
BURDEN PROFILES IN BLAST DESIGN SOFTWARE





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SHOULD BE EASY TO IDENTIFY WEAK AREAS RIGHT?

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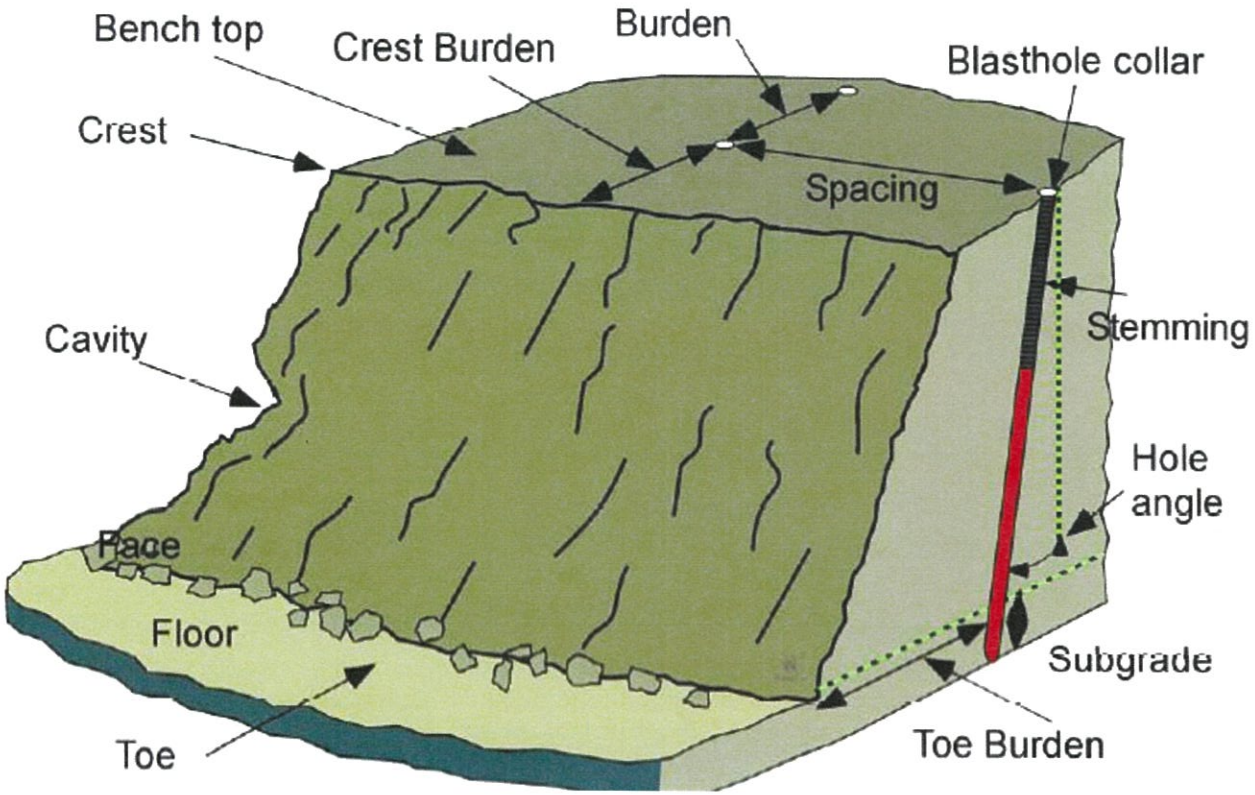
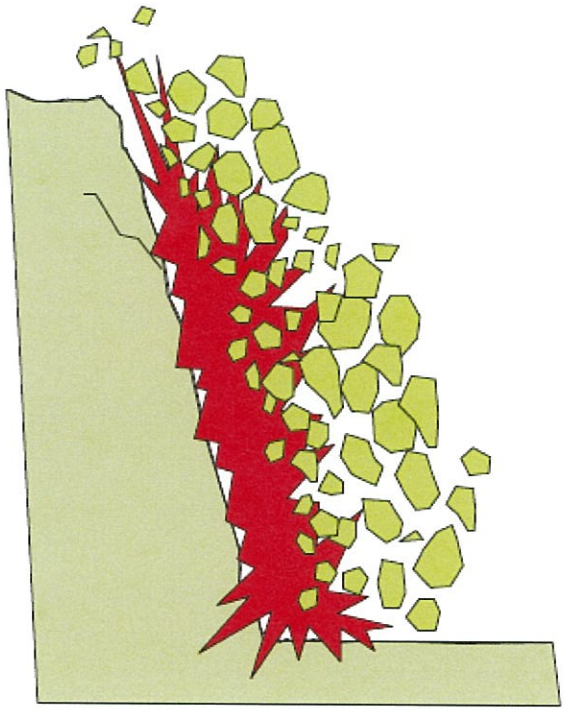
PROPER CONFINEMENT IS KEY





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BLAST VIDEO

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BLAST VIDEO

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ORICA

Vibra-Tech

VibraTechinc.com

4818 E. Ben White Blvd.
Suite 202
Austin, TX 78741

Phone 512.442.6464
Fax 512.442.6552

October 22, 2018

Mr. Mike Shands
Garden Ridge Quarry Commission
9400 Municipal Parkway
Garden Ridge, Texas 78266

Dear Mr. Shands,

Enclosed is the analysis for the blasting conducted during the month of September 2018 at the Hanson Aggregates Quarry in Garden Ridge, Texas. Please place this information in your 2018 Blast Data Management Book.

At the request of the Garden Ridge Quarry Commission, Vibra-Tech, Inc. personnel used seismographs each day of blasting at various locations.

The attached report contains the original seismograph records obtained from the blasting along with a comparison of the recorded vibrations to the latest recommended U.S. Bureau of Mines (USBM) Variable Particle Velocity vs. Frequency Limits Report of Investigations (RI)-8507 (Nov. 1980).

The recorded ground vibrations **satisfy** the Variable Particle Velocity vs. Frequency Limits recommended by the USBM RI-8507 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

The recorded air-borne effects **satisfy** the recommended levels set forth in the USBM RI-8485 (Nov. 1980), and the levels set forth in Garden Ridge City Ordinance 34.

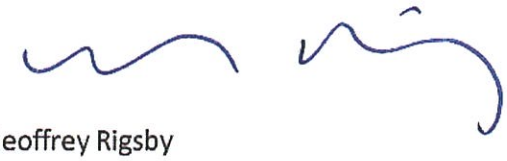
If there are any additional questions, please contact the Quarry Commission, Mike Shands at (210) 257-0868, or attend the Quarry Commission meeting held every other month (odd months) at 6:00 PM.

Vibra-Tech

VibraTechinc.com

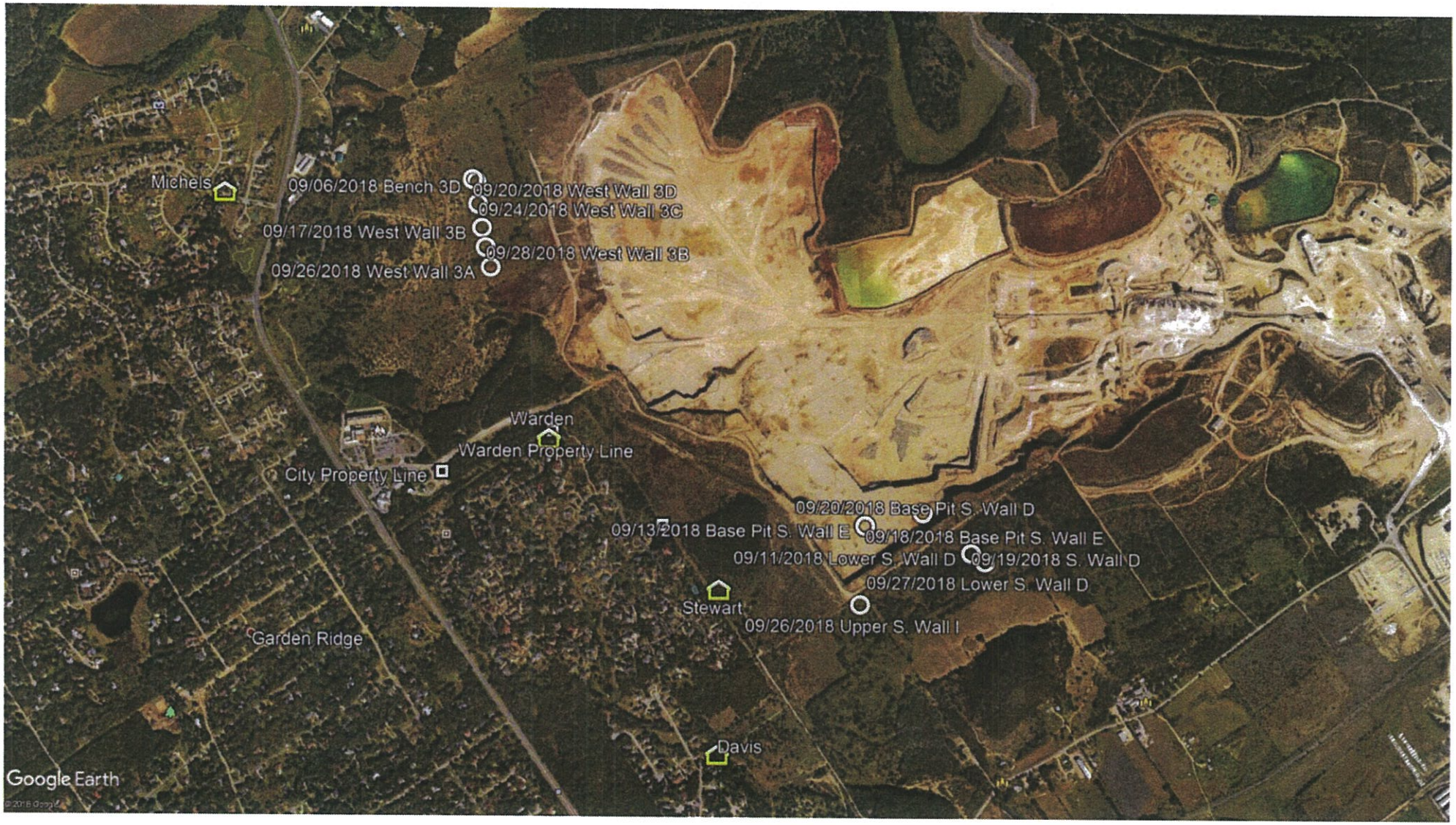
Respectfully submitted,

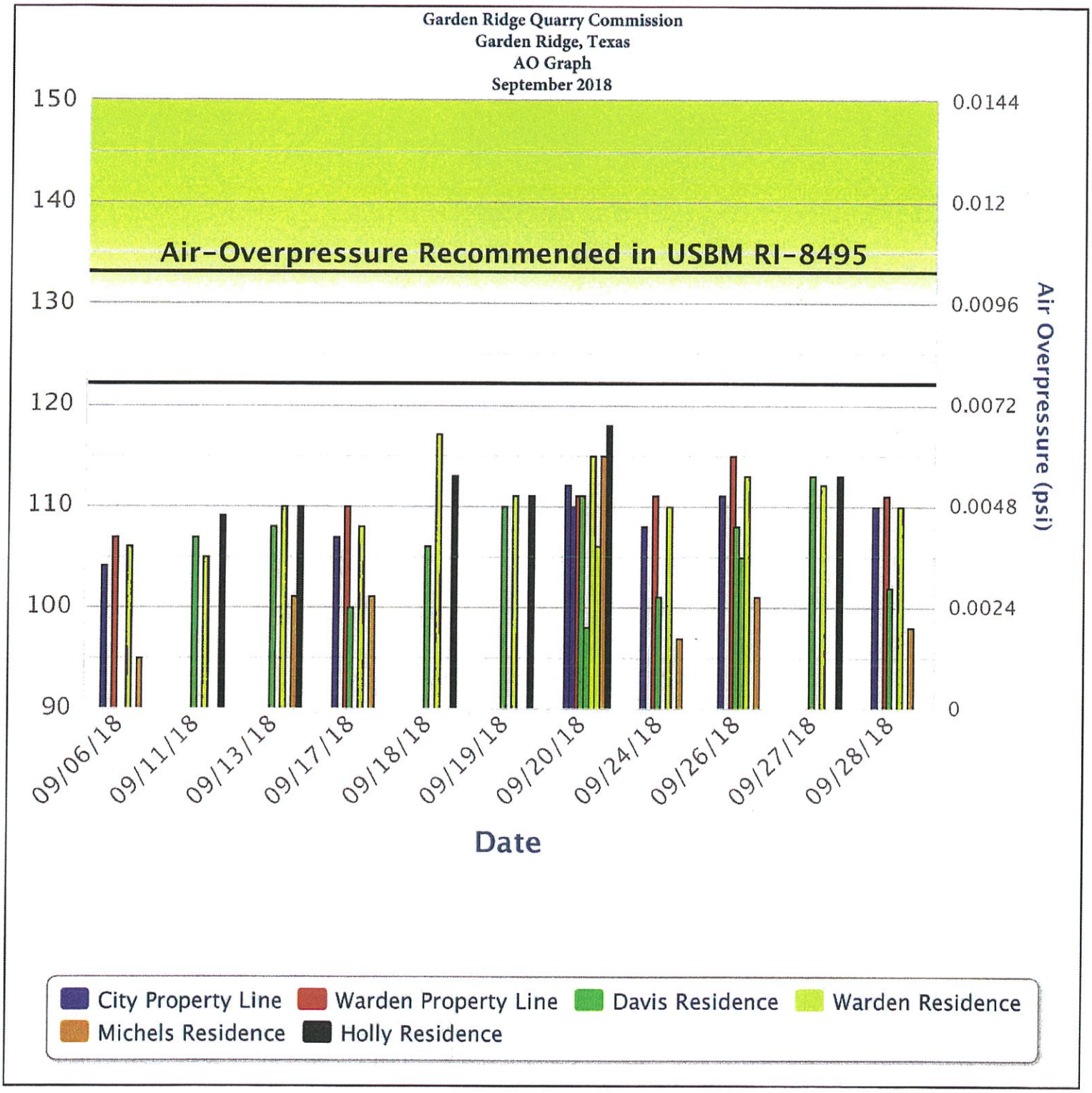
VIBRA-TECH, INC.

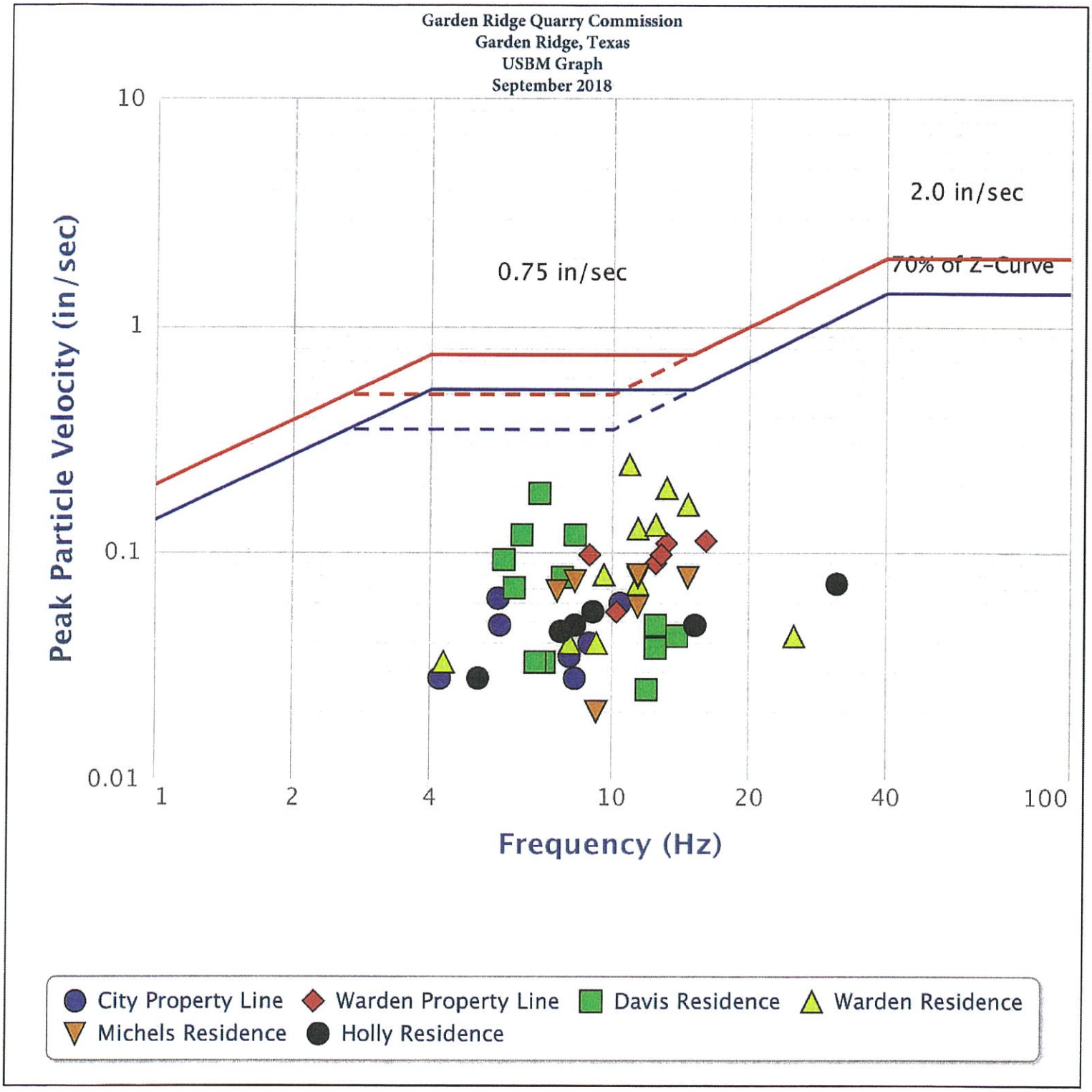


Geoffrey Rigsby
Regional Manager

cc: Hal Halamuda, Hanson – Servtex


Michels
09/06/2018 Bench 3D
09/20/2018 West Wall 3D
09/24/2018 West Wall 3C
09/17/2018 West Wall 3B
09/28/2018 West Wall 3B
09/26/2018 West Wall 3A
Warden
Warden Property Line
City Property Line
09/20/2018 Base Pit S. Wall D
09/13/2018 Base Pit S. Wall E
09/18/2018 Base Pit S. Wall E
09/11/2018 Lower S. Wall D
09/19/2018 S. Wall D
09/27/2018 Lower S. Wall D
Stewart
09/26/2018 Upper S. Wall I
Garden Ridge
Davis
Google Earth


Garden Ridge Quarry Commission
Garden Ridge, Texas
AO Graph
September 2018
150
140
130
120
110
100
90
0.0144
0.012
0.0096
0.0072
0.0048
0.0024
0
Air Overpressure (psi)
Air-Overpressure Recommended in USBM RI-8495
09/06/18
09/11/18
09/13/18
09/17/18
09/18/18
09/19/18
09/20/18
09/24/18
09/26/18
09/27/18
09/28/18
Date
City Property Line
Warden Property Line
Davis Residence
Warden Residence
Michels Residence
Holly Residence


Garden Ridge Quarry Commission
Garden Ridge, Texas
USBM Graph
September 2018
10
1
0.1
0.01
Peak Particle Velocity (in/sec)
2.0 in/sec
0.75 in/sec
70% of Z-Curve
1
2
4
10
20
40
100
Frequency (Hz)
City Property Line
Warden Property Line
Davis Residence
Warden Residence
Michels Residence
Holly Residence

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2018

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
09/06/18	09/06/2018 Bench 3D	N 29° 38' 53.52" W 098° 17' 47.04"	MOSTLY CLOUDY 84° N 7	10:55	0.028	8.3	104.0	908	153.00	3,156	City Property Line
09/06/18	09/06/2018 Bench 3D	N 29° 38' 53.52" W 098° 17' 47.04"	MOSTLY CLOUDY 84° N 7	10:55	0.078	14.7	95.0	908	153.00	2,820	Michels - 9118 Tuscan Hills
09/06/18	09/06/2018 Bench 3D	N 29° 38' 53.52" W 098° 17' 47.04"	MOSTLY CLOUDY 84° N 7	10:55	NT	NT	NT	908	153.00	5,475	Stewart Residence
09/06/18	09/06/2018 Bench 3D	N 29° 38' 53.52" W 098° 17' 47.04"	MOSTLY CLOUDY 84° N 7	10:55	0.128	11.4	106.0	908	153.00	3,134	Warden - 21375 Gunther Grove
09/06/18	09/06/2018 Bench 3D	N 29° 38' 53.52" W 098° 17' 47.04"	MOSTLY CLOUDY 84° N 7	10:55	0.055	10.2	107.0	908	153.00	2,949	Warden Property Line
09/11/18	09/11/2018 Lower S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	OVERCAST 88° NE 8	15:17	NT	NT	NT	486	671.00	6,072	City Property Line
09/11/18	09/11/2018 Lower S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	OVERCAST 88° NE 8	15:17	0.078	7.8	107.0	486	671.00	3,750	Davis Residence
09/11/18	09/11/2018 Lower S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	OVERCAST 88° NE 8	15:17	0.048	15.2	109.0	486	671.00	3,532	Holly - 9916 Trophy Oaks
09/11/18	09/11/2018 Lower S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	OVERCAST 88° NE 8	15:17	NT	NT	NT	486	671.00	9,275	Michels - 9118 Tuscan Hills
09/11/18	09/11/2018 Lower S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	OVERCAST 88° NE 8	15:17	0.040	8.1	105.0	486	671.00	4,897	Warden - 21375 Gunther Grove
09/13/18	09/13/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	OVERCAST 90° NE 8	16:27	NT	NT	NT	774	482.00	4,852	City Property Line
09/13/18	09/13/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	OVERCAST 90° NE 8	16:27	0.093	5.8	108.0	774	482.00	3,197	Davis Residence
09/13/18	09/13/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	OVERCAST 90° NE 8	16:27	0.055	9.1	110.0	774	482.00	2,322	Holly - 9916 Trophy Oaks
09/13/18	09/13/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	OVERCAST 90° NE 8	16:27	0.020	9.3	101.0	774	482.00	8,073	Michels - 9118 Tuscan Hills
09/13/18	09/13/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	OVERCAST 90° NE 8	16:27	0.073	11.4	110.0	774	482.00	3,672	Warden - 21375 Gunther Grove

NT = No Trigger, <0.020ips.
NT = No Trigger, <122dB

GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2018

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
09/17/18	09/17/2018 West Wall 3B	N 29° 38' 48.3" W 098° 17' 46.7"	PARTLY CLOUDY 87° SE 10	15:28	0.060	10.4	107.0	860	209.00	2,679	City Property Line
09/17/18	09/17/2018 West Wall 3B	N 29° 38' 48.3" W 098° 17' 46.7"	PARTLY CLOUDY 87° SE 10	15:28	0.043	13.9	100.0	860	209.00	6,640	Davis Residence
09/17/18	09/17/2018 West Wall 3B	N 29° 38' 48.3" W 098° 17' 46.7"	PARTLY CLOUDY 87° SE 10	15:28	0.058	11.4	101.0	860	209.00	2,908	Michels - 9118 Tuscan Hills
09/17/18	09/17/2018 West Wall 3B	N 29° 38' 48.3" W 098° 17' 46.7"	PARTLY CLOUDY 87° SE 10	15:28	0.133	12.5	108.0	860	209.00	2,631	Warden - 21375 Gunther Grove
09/17/18	09/17/2018 West Wall 3B	N 29° 38' 48.3" W 098° 17' 46.7"	PARTLY CLOUDY 87° SE 10	15:28	0.113	16.1	110.0	860	209.00	2,449	Warden Property Line
09/18/18	09/18/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	PARTLY CLOUDY 90° SE 8	16:01	NT	NT	NT	592	502.00	4,852	City Property Line
09/18/18	09/18/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	PARTLY CLOUDY 90° SE 8	16:01	0.120	6.3	106.0	592	502.00	3,197	Davis Residence
09/18/18	09/18/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	PARTLY CLOUDY 90° SE 8	16:01	0.048	8.3	113.0	592	502.00	2,322	Holly - 9916 Trophy Oaks
09/18/18	09/18/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	PARTLY CLOUDY 90° SE 8	16:01	NT	NT	NT	592	502.00	8,073	Michels - 9118 Tuscan Hills
09/18/18	09/18/2018 Base Pit S. Wall E	N 29° 38' 12.2" W 098° 17' 00.2"	PARTLY CLOUDY 90° SE 8	16:01	0.040	9.3	117.0	592	502.00	3,672	Warden - 21375 Gunther Grove
09/19/18	09/19/2018 S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	PARTLY CLOUDY 91° SE 7	16:14	NT	NT	NT	624	713.00	6,072	City Property Line
09/19/18	09/19/2018 S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	PARTLY CLOUDY 91° SE 7	16:14	0.120	8.3	110.0	624	713.00	3,750	Davis Residence
09/19/18	09/19/2018 S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	PARTLY CLOUDY 91° SE 7	16:14	0.045	7.7	111.0	624	713.00	3,532	Holly - 9916 Trophy Oaks
09/19/18	09/19/2018 S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	PARTLY CLOUDY 91° SE 7	16:14	NT	NT	NT	624	713.00	9,275	Michels - 9118 Tuscan Hills
09/19/18	09/19/2018 S. Wall D	N 29° 38' 8.4" W 098° 16' 47.0"	PARTLY CLOUDY 91° SE 7	16:14	0.043	25.0	111.0	624	713.00	4,897	Warden - 21375 Gunther Grove

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GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2018

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
09/20/18	09/20/2018 West Wall 3D	N 29° 38' 53.8" W 098° 17' 47.5"	MOSTLY CLOUDY 85° NE 15	15:46	0.035	8.1	110.0	748	676.00	3,210	City Property Line
09/20/18	09/20/2018 West Wall 3D	N 29° 38' 53.8" W 098° 17' 47.5"	MOSTLY CLOUDY 85° NE 15	15:46	0.048	12.5	98.0	748	676.00	7,190	Davis Residence
09/20/18	09/20/2018 West Wall 3D	N 29° 38' 53.8" W 098° 17' 47.5"	MOSTLY CLOUDY 85° NE 15	15:46	0.078	11.4	115.0	748	676.00	2,814	Michels - 9118 Tuscan Hills
09/20/18	09/20/2018 West Wall 3D	N 29° 38' 53.8" W 098° 17' 47.5"	MOSTLY CLOUDY 85° NE 15	15:46	0.163	14.7	106.0	748	676.00	3,190	Warden - 21375 Gunther Grove
09/20/18	09/20/2018 West Wall 3D	N 29° 38' 53.8" W 098° 17' 47.5"	MOSTLY CLOUDY 85° NE 15	15:46	0.090	12.5	111.0	748	676.00	3,005	Warden Property Line
09/20/18	09/20/2018 Base Pit S. Wall D	N 29° 38' 13.2" W 098° 16' 52.68"	MOSTLY CLOUDY 85° NE 15	16:25	0.028	4.2	112.0	540	676.00	5,482	City Property Line
09/20/18	09/20/2018 Base Pit S. Wall D	N 29° 38' 13.2" W 098° 16' 52.68"	MOSTLY CLOUDY 85° NE 15	16:25	0.183	6.9	111.0	540	676.00	3,697	Davis Residence
09/20/18	09/20/2018 Base Pit S. Wall D	N 29° 38' 13.2" W 098° 16' 52.68"	MOSTLY CLOUDY 85° NE 15	16:25	0.073	31.3	118.0	540	676.00	2,972	Holly - 9916 Trophy Oaks
09/20/18	09/20/2018 Base Pit S. Wall D	N 29° 38' 13.2" W 098° 16' 52.68"	MOSTLY CLOUDY 85° NE 15	16:25	NT	NT	NT	540	676.00	8,604	Michels - 9118 Tuscan Hills
09/20/18	09/20/2018 Base Pit S. Wall D	N 29° 38' 13.2" W 098° 16' 52.68"	MOSTLY CLOUDY 85° NE 15	16:25	0.080	9.6	115.0	540	676.00	4,285	Warden - 21375 Gunther Grove
09/24/18	09/24/2018 West Wall 3C	N 29° 38' 51.0" W 098° 17' 47.0"	PARTLY CLOUDY 90° SW 7	14:54	0.048	5.7	108.0	676	206.20	2,940	City Property Line
09/24/18	09/24/2018 West Wall 3C	N 29° 38' 51.0" W 098° 17' 47.0"	PARTLY CLOUDY 90° SW 7	14:54	0.038	12.5	101.0	676	206.20	6,907	Davis Residence
09/24/18	09/24/2018 West Wall 3C	N 29° 38' 51.0" W 098° 17' 47.0"	PARTLY CLOUDY 90° SW 7	14:54	0.068	7.6	97.0	676	206.20	2,857	Michels - 9118 Tuscan Hills
09/24/18	09/24/2018 West Wall 3C	N 29° 38' 51.0" W 098° 17' 47.0"	PARTLY CLOUDY 90° SW 7	14:54	0.193	13.2	110.0	676	206.20	2,904	Warden - 21375 Gunther Grove
09/24/18	09/24/2018 West Wall 3C	N 29° 38' 51.0" W 098° 17' 47.0"	PARTLY CLOUDY 90° SW 7	14:54	0.110	13.2	111.0	676	206.20	2,720	Warden Property Line

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GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2018

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
09/26/18	09/26/2018 West Wall 3A	N 29° 38' 43.8" W 098° 17' 45.9"	PARTLY CLOUDY 90° SW 7	16:09	0.063	5.6	111.0	476	194.00	2,260	City Property Line
09/26/18	09/26/2018 West Wall 3A	N 29° 38' 43.8" W 098° 17' 45.9"	PARTLY CLOUDY 90° SW 7	16:09	0.033	7.1	105.0	476	194.00	6,188	Davis Residence
09/26/18	09/26/2018 West Wall 3A	N 29° 38' 43.8" W 098° 17' 45.9"	PARTLY CLOUDY 90° SW 7	16:09	0.075	8.3	101.0	476	194.00	3,074	Michels - 9118 Tuscan Hills
09/26/18	09/26/2018 West Wall 3A	N 29° 38' 43.8" W 098° 17' 45.9"	PARTLY CLOUDY 90° SW 7	16:09	0.245	10.9	113.0	476	194.00	2,171	Warden - 21375 Gunther Grove
09/26/18	09/26/2018 West Wall 3A	N 29° 38' 43.8" W 098° 17' 45.9"	PARTLY CLOUDY 90° SW 7	16:09	0.098	8.9	115.0	476	194.00	1,993	Warden Property Line
09/26/18	09/26/2018 Upper S. Wall I	N 29° 38' 3.48" W 098° 17' 1.68"	PARTLY CLOUDY 90° SW 7	16:27	NT	NT	NT	766	20.00	4,998	City Property Line
09/26/18	09/26/2018 Upper S. Wall I	N 29° 38' 3.48" W 098° 17' 1.68"	PARTLY CLOUDY 90° SW 7	16:27	0.025	11.9	108.0	766	20.00	2,438	Davis Residence
09/26/18	09/26/2018 Upper S. Wall I	N 29° 38' 3.48" W 098° 17' 1.68"	PARTLY CLOUDY 90° SW 7	16:27	NT	NT	NT	766	20.00	2,470	Holly - 9916 Trophy Oaks
09/26/18	09/26/2018 Upper S. Wall I	N 29° 38' 3.48" W 098° 17' 1.68"	PARTLY CLOUDY 90° SW 7	16:27	NT	NT	NT	766	20.00	8,446	Michels - 9118 Tuscan Hills
09/26/18	09/26/2018 Upper S. Wall I	N 29° 38' 3.48" W 098° 17' 1.68"	PARTLY CLOUDY 90° SW 7	16:27	NT	NT	NT	766	20.00	3,912	Warden - 21375 Gunther Grove
09/27/18	09/27/2018 Lower S. Wall D	N 29° 38' 7.3" W 098° 16' 45.3"	OVERCAST 76° SE 13	12:56	NT	NT	NT	736	638.00	6,245	City Property Line
09/27/18	09/27/2018 Lower S. Wall D	N 29° 38' 7.3" W 098° 16' 45.3"	OVERCAST 76° SE 13	12:56	0.070	6.1	113.0	736	638.00	3,809	Davis Residence
09/27/18	09/27/2018 Lower S. Wall D	N 29° 38' 7.3" W 098° 16' 45.3"	OVERCAST 76° SE 13	12:56	0.028	5.1	113.0	736	638.00	3,701	Holly - 9916 Trophy Oaks
09/27/18	09/27/2018 Lower S. Wall D	N 29° 38' 7.3" W 098° 16' 45.3"	OVERCAST 76° SE 13	12:56	NT	NT	NT	736	638.00	9,460	Michels - 9118 Tuscan Hills
09/27/18	09/27/2018 Lower S. Wall D	N 29° 38' 7.3" W 098° 16' 45.3"	OVERCAST 76° SE 13	12:56	0.033	4.3	112.0	736	638.00	5,074	Warden - 21375 Gunther Grove

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GARDEN RIDGE QUARRY COMMISSION
HANSON - SERVTEX QUARRY
GARDEN RIDGE, TEXAS
SEPTEMBER 2018

DATE	SHOT # LOCATION	SHOT LOCATION GPS READING	WEATHER	TIME	PPV (in/sec)	FREQ (Hz)	AIR (dB)	SHOT DURATION (MS)	MAX LBS/ DELAY	DISTANCE FROM BLAST	SEISMOGRAPH LOCATION
09/28/18	09/28/2018 West Wall 3B	N 29° 38' 46.1" W 098° 17' 46.4"	MOSTLY CLOUDY 90° S 7	15:34	0.040	8.9	110.0	676	239.00	2,470	City Property Line
09/28/18	09/28/2018 West Wall 3B	N 29° 38' 46.1" W 098° 17' 46.4"	MOSTLY CLOUDY 90° S 7	15:34	0.033	6.8	102.0	676	239.00	6,422	Davis Residence
09/28/18	09/28/2018 West Wall 3B	N 29° 38' 46.1" W 098° 17' 46.4"	MOSTLY CLOUDY 90° S 7	15:34	0.080	11.4	98.0	676	239.00	2,973	Michels - 9118 Tuscan Hills
09/28/18	09/28/2018 West Wall 3B	N 29° 38' 46.1" W 098° 17' 46.4"	MOSTLY CLOUDY 90° S 7	15:34	0.133	12.5	110.0	676	239.00	2,408	Warden - 21375 Gunther Grove
09/28/18	09/28/2018 West Wall 3B	N 29° 38' 46.1" W 098° 17' 46.4"	MOSTLY CLOUDY 90° S 7	15:34	0.098	12.8	111.0	676	239.00	2,228	Warden Property Line

#	Month	Blast Date	Blast time	Date Received	Name	Address	Phone #	Rating	# stories	sq footage	request contact	Misc	Date sent to Quarry Commission
2018-33Q	September	9/19/2018	4:13	9/19/2018	David Dauer	20003 Regency Run	210-789-6552	5	2	3800	Yes	Shook house	9/19/2018
2018-34Q	September	9/20/2018	4:36	9/20/2018	Heather Ecton	9403 Gardenia Bend Drive		4	1	3386	No	Shook entire house. Windows rattled and doorframes shook. Pictures almost fell and are now crooked.	10/30/2018
2018-35Q	October	10/11/2018	12:00pm	10/12/2018	Marsha Walenta	8319 Wild Wind Park		5	2	4700	Yes	Determined not a blast from Hanson Quarry.	10/12/2018
2018-36Q	October	10/26/2018	4:24	10/26/2018	Marissa Lozano	9861 Trophy Oaks Drive	210-296-7055	3	2	5000	Yes	Blast created a different effect on house than others.	10/26/2018

Print

Citizen Quarry Blast Impact Report - Submission #964

Date Submitted: 9/19/2018

First Name	Last Name	Report Date
DAVID	DAUER	9/19/2018

Phone Number:
2107896552

E-Mail Address

Address1
20003 REGENCY RUN

Blast Date/Time:
4:13

Please describe the event.
BLAST SHOOK HER HOUSE

How did this blast compare to other blasts?
SHOOK HER HOUSE

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	What was your activity at the time of blast?	In what general direction does you house face? (N,E,S or W)
5	LAYING DOWN	N

What is the approximate square footage of your home?	Is your home a 1 story, 1 1/2 , or 2 story or large?	Would you like a Quarry Commission member to contact you regarding your report?
3800	2 STORY	Yes

We encourage you to attend the next meeting of the Quarry Commission.

Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

By filing this report, you consent to the public release of this information.

2018-330

Print

Citizen Quarry Blast Impact Report - Submission #965

Date Submitted: 9/20/2018

First Name	Last Name	Report Date
Heather	Ecton	9/20/2018

Phone Number:

E-Mail Address

Address1

9403 Gardenia Bend Dr

Blast Date/Time:

4:36

Please describe the event.

Large blast, shook entire house. Windows rattled and doorframes shook. Pictures almost fell and are now crooked.

How did this blast compare to other blasts?

Not the worst but almost there.

On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	What was your activity at the time of blast?	In what general direction does you house face? (N,E,S or W)
4	standing in kitchen	

What is the approximate square footage of your home?	Is your home a 1 story, 1 1/2 , or 2 story or large?	Would you like a Quarry Commission member to contact you regarding your report?
3386	1	No

We encourage you to attend the next meeting of the Quarry Commission.

Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.

By filing this report, you consent to the public release of this information.

2018-34 Q

CITY OF GARDEN RIDGE

CITIZEN QUARRY BLAST IMPACT REPORT

Name: MARSHA WALENTA Report Date: 10/12/2018

Address: 8319 WILD WIND PARK E-Mail Address: [redacted].com

Phone: [redacted] Blast Date/Time: 10/11/2018 11:59-12:00 NOON

Please describe the event.

A LOUD RUMBLE AND ACCOMPANYING SHAKING OF MY ENTIRE HOME. MY dogs BARKED AND BARKED EVEN AFTER THE EVENT WAS OVER.

How did this blast compare to other blasts? FIRST TIME WE HAVE EXPERIENCED THIS. I THOUGHT IT WAS AN EARTHQUAKE.

On a 1 to 5 scale, please rate the blast intensity. (1= minor, 5= major) (5)

What was your activity at the time of the blast? AT HOME READING

In what general direction does your house face? (N, E, S or W) E-W (BACK)

Is your home a 1 story, 1 ½ story, or 2 story or larger? 2 STORY

What is the approximate square footage of your home? 4,700 Sq. FT.

Would you like a Quarry Commission member to contact you regarding your report? (Yes or No) ✓

We encourage you to attend the next meeting of the Quarry Commission. Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the Municipal Courtroom.

Please complete the form and print it, then submit the completed report(s) to the City Hall or to citysecretary@ci.garden-ridge.tx.us. Thank you for submitting the form.

By filing this report, you consent to the public release of this information.

Web form – Citizen Informational Quarry Blast Impact Report – 12/2016

2018-35Q

City Administrator

From: City Administrator
Sent: Friday, October 12, 2018 11:26 AM
To:
Cc: City Secretary
Subject: FW: Citizen Quarry Blast Impact Report
Attachments: scan0003.pdf

Ms. Walenta,

Thank you for making the City aware of your concern. The Hanson Quarry in Garden Ridge did not perform any blasting activity on October 11, 2018 so the blast you felt probably came from the Briggs Pit which is adjacent to Wild Wind at 19372 Marbach Lane. Unfortunately the Briggs Pit is not located in the Garden Ridge City limits therefore the City's blasting ordinance does not apply to their operations nor does the City have any jurisdiction over the location. The Briggs Pit is owned by Galo Materials, located in Comal County and is in the City of San Antonio Extraterritorial Jurisdiction. It is recommended you contact Galo Materials at 210-807-5114, Comal County Commissioner Pct. #2, Scott Haag and the Comal County Commissioner's Court at 830-221-1102 as well as the City of San Antonio, City Councilman, District 10, Clayton Perry at 210-207-7276.

Please feel free to contact me should you have any questions or wish to discuss further.

Sincerely,
Nancy Cain
City Administrator
City of Garden Ridge
administrator@ci.garden-ridge.tx.us
210-651-6632

From: City Secretary
Sent: Friday, October 12, 2018 10:10 AM
To: Assistant City Secretary
Subject: FW: Citizen Quarry Blast Impact Report

From: Marsha Walenta
Sent: Friday, October 12, 2018 9:57 AM
To: City Secretary <CitySecretary@ci.garden-ridge.tx.us>
Subject: Citizen Quarry Blast Impact Report

Quarry Commissioners:
I am submitting this report in the hope that something can be done to regulate the blasting. It is very concerning to me that this can be done without public hearings and it directly affects our quality of life and the value of our property.

With much concern,
Marsha Walenta
8319 Wild Wind Park
Garden Ridge, TX 78266

Assistant City Secretary

From: noreply@civicplus.com
Sent: Friday, October 26, 2018 4:41 PM
To: City Administrator; City Secretary; Adm Liaison
Subject: Online Form Submittal: Citizen Quarry Blast Impact Report

Citizen Quarry Blast Impact Report

First Name	Marissa
Last Name	Lozano
Report Date	10/26/2018
Phone Number:	210-296-7055
E-Mail Address	
Address1	9861 Trophy Oaks Dr
Blast Date/Time:	4:24 October 26,2018
Please describe the event.	Blasting happened around 4:24.. felt house vibrate and ceiling popped. The blast scared the dogs both inside and outside our home.. My son questioned me as to what happened to our house...
How did this blast compare to other blasts?	Created a different effect on the house , sounded like something hit the roof and made the ceiling sound like it popped.
On a 1 to 5 scale, please rate the blast intensity. (1=minor, 5 = major)	3
What was your activity at the time of blast?	Eating at our breakfast room table.
In what general direction does you house face? (N,E,S or W)	N
What is the approximate square footage of your home?	5,000
Is your home a 1 story, 1 1/2 , or 2 story or large?	2

2018-360

Would you like a Quarry Commission member to contact you regarding your report?	Yes

We encourage you to attend the next meeting of the Quarry Commission. *Representatives of the monitoring company and the blasting contractor as well as the Quarry Manager normally attend every meeting and are available to answer questions. The Commission meets the second Monday of every other month at 6:00 PM in the City Council Chambers in City Hall.*

By filing this report, you consent to the public release of this information.

Email not displaying correctly? View it in your browser.

Quarry Commission Attendance

Commissioner	1/8/18 Regular Meeting	3/12/18 Regular Meeting	5/14/18 Regular Meeting	7/9/18 Regular Meeting	9/10/18 Regular Meeting	11/5/18 Regular Meeting
Shands	P	P	P	P	P	
Barucky	P	P	P	P	P	
DuBois	P	P	P	VAA	P	
Haddad	P	P	P	P	P	
Holloway	P	P	VAA	P	P	
Holly	P	P	P	P	P	
Mudge		P	P	VAA	P	

P	Present
P-QNM	Present but quorum not meet
E	Excused for reasons allowed in Ord. 210
VAA	Voluntary Announced Absense
UA	Unannounced Absence
	Not member yet

Quarry Commission's Attendance at City Council Regular Meetings

Commissioners	3/7/18 Regular Meeting	4/4/18 Regular Meeting	5/2/18 Regular Meeting	6-6-18 Regular Meeting	7/5/18 Regular Meeting	8/1/18 Regular Meeting	9/5/18 Regular Meeting	10/3/18 Regular Meeting	11/7/18 Regular Meeting	12/5/18 Regular Meeting		Total for year
Shands							P	P				2
Barucky							P	P				2
DuBois												
Haddad												
Holloway				P		P						2
Holly		P	P				P					3
Mudge												
	Meet requirements											
	Not met the requirements											

Future Agenda Items

Quarry Commission

January 14, 2019
Regular Meeting
(no meeting in December 2018)

12 days before Meeting	(01/02/19)	Commission and Staff items are due
10 days before Meeting	(01/04/19)	City Administrator and Chair review agenda. City Attorney is sent the agenda for approval.
7 days before Meeting	(01/07/19)	Post Agenda on bulletin board and Commission will receive packet. (allowing a day and half for corrections and to request additional information to be added)
4 days before Meeting	(01/10/19)	Post Agenda Packet to City Website
3 days before Meeting	(01/11/19)	(72 hours) – Local Government Code requirement for posting

City Council = Red
Impact Fee Committee = Pink
Quarry Commission = Purple
Planning & Zoning = Green
Water Commission = Blue
Wildlife Management Advisory Commission = Brown
New Year's Day Holiday= City Events
Martin Luther King Jr. Holiday= City Events

Sun	Mon	Tues	Wed	Thur	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Approval

1. Minutes 11-05-18

Public Hearings/Recommendations

Discussion/Reports

1. City Council Update
2. Future Agenda Items
   a. Commissioners' input
   b. Announce next meeting (if necessary) March 11, 2018 at 6pm

Training Session

Executive Session

PENDING FUTURE AGENDA ITEMS