BLAST REPORT **BLAST REPORT #** WS18

☐ Sanders Construction, Inc. ☒ Western States Drilling & Blasting, Inc.

DATE: Aug 9, 2010 EXACT TIME OF SHOT: 8:16

CUSTOMER: KLB JOB NO.: WS21005

SHOT LOCATION WITH GPS COORDINATES: Sta 1337+30 - 1333+92 TICKET NO.:

CHECK LIST COMPLETED: YES NO

TYPE OF ROCK: LAPILLI TOFF FACE HEIGHT: BOULDER FT. POUNDS PER DELAY:

TOTAL HOLES: 28

NUMBER OF HOLES: 17 HOLE DIA: 3" BxS PRESPLIT STEMMING: 5 DEPTH: 14-17

NUMBER OF HOLES: 11 HOLE DIA: 3" BxS 4 x 4 STEMMING: 6' DEPTH: 8'

POWDER FACTOR: LBS. OF EXPLOSIVES: YARDS OF ROCK:

WEATHER: WIND:

EXACT MONITOR LOCATION(GPS): NOT MONITORED DIRECTION OF BLAST: MONITOR TYPE:

MONITOR: L/R T V PVS Db MONITOR SERIAL NO.:

DISTANCE TO BLAST: AVERAGE POUNDS PER HOLE: OPERATOR:

EXACT MONITOR LOCATION(GPS): DIRECTION OF BLAST: MONITOR TYPE:

MONITOR: L/R T V PVS Db MONITOR SERIAL NO.:

DISTANCE TO BLAST: AVERAGE POUNDS PER HOLE: OPERATOR:

EXPLOSIVES

DESCRIPTION	QUANTITY USED		DATE CODE	MAGAZINE	REMOVED	RETURNED
LOCATION:						
BULK A/N		Lbs				
BAG ANFO AMEX	5 1/2	Bags		TRLR	5 1/2	0
POWDER 1 1/4 x 8	16	ea.	061128	F-3022	16	0
POWDER 7/8 x 16	1 Cs	ea.	091119	F-3022	1	0
lb. BOOSTER		ea.				
lb. BOOSTER		ea.				
30 ft. HANDI	16	ea.	01MA10B4	F-3		
MSC ft. 17ms	5	ea.	12JA09B4	F-3	5	0
ft.		ea.				
ft.		ea.				
ft.		ea.				
ft.		ea.				
ft. ms		ea.				
		ft.				
GRAIN CORD		ft.				
GRAIN CORD		ft.				
MISCELLANEOUS						
LM	500'		PARTIAL		PARTIAL	0

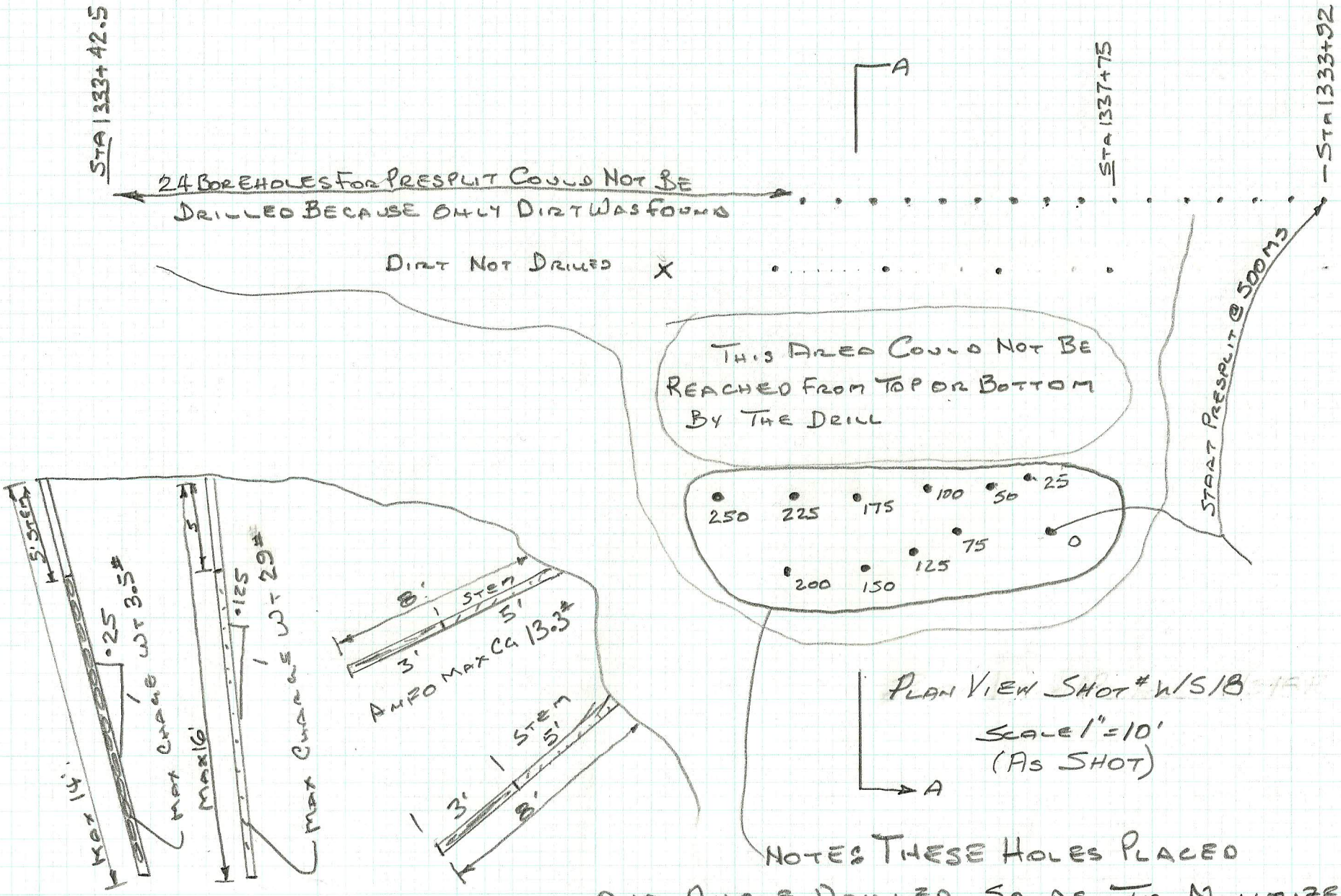
COMMENTS:
BOULDER BEING BLASTED APPEARED TO BE SOLID ROCK BUT WHEN SHOT CAME APART AND FLEW ≈ 600'

BLASTER'S SIGNATURE: [signature] LICENSE NO.: UP 21262

Revised 03/04

ATTACH SKETCH OF SHOT

THIS FORM MUST BE FILLED OUT COMPLETELY



SECTION AA
SCALE 1" = 5'

NOTE: THESE HOLES PLACED AND ANGLE DRILLED SO AS TO MINIMIZE THROW OF ROCK TOWARD I-90 AND TO MAXIMIZE FRAGMENTATION OF THE BOULDER BEFORE ANY DOWNHILL MOVEMENT OCCURS

Check List

Date 8-4-10

Job Number WS21005

Shot Number WS10

1. BEFORE BLASTING

NOTIFICATION

- [ ] Fire Department
- [ ] Utilities
- [ ] Businesses & Home Owners
- [ ] Seismograph Tech

Other (List)

_____
_____
_____
_____

MATERIAL & EQUIPMENT

- [x] Adequate Stemming Material
- [x] Warning Signs
- [x] Warning Signals
- [x] Safe Amount of Lead Line
- [x] Seismograph Paper, Pens, etc.
- [x] Fire Extinguishers (charged)
- [x] Adequate Blasting Shelter
- [x] Mats (If Applicable)

SHOT DESIGN

- [x] Pattern OK for Area
- [x] Sufficient Burden to Face
- [x] Reviewed drill logs
- [x] Measured Depth, Burden & & Spacing
- [x] Shot Area Posted & Secure
- [ ] Shot Diagramed on Back

2. DURING LOADING

CONSTANT CHECKS

- [x] Explosives
- [x] Running Inventory
- [x] Access Row Empty
- [x] Drills & Traffic 50' Away
- [x] Shot can be fired in case of emergency

All Holes to be checked & approved

- [CAM] Blaster initial
- [ ] Supt initial

3. DETONATION

HOOK - UP

- [x] All Unnecessary Crew Cleared
- [x] All Holes Loaded & Stemmed
- [x] Hand Check tubing Before Each Connection
- [x] Visually Insured That Each Connection is Snapped

SECURE AREA

- [x] Set up Seismograph
- [x] Est. Checkpoints at Each Access
- [x] Radio Communication with Checkpoints.
- [x] Cleared People, Vehicles & Equipment
- [x] Visual Coverage of Entire Site
- [x] Five Minute Warning
- [x] One Minute Warning

4. AFTER DETONATION

POST BLAST CHECK

- [x] Waited for Dust & Funes to Dissipate
- [x] Walked Entire Area of Shot
- [x] Insured that tail Surface Delays Fired at the End of Each Row
- [x] Sounded All Clear Signal

LEGAL DOCUMENTATION

- [x] Completed Shot Report
- [x] Diagramed Shot w/ Seismograph Location (Direction & Distance)
- [x] Recorded Seismic Results on Blast Report
- [x] Final Inventory of Explosives Recorded
- [x] Ticket Number Assigned By Job Supervisor
- [x] Signed Blast Report w/ License No.

Supt has checked and verified that all has been completed and shot area is ready for loading

[CAM] **Supt initial**