




OREGON DEPARTMENT OF TRANSPORTATION

AGGREGATE SITES DISTRICT 3

JUNE 2002

LEGEND

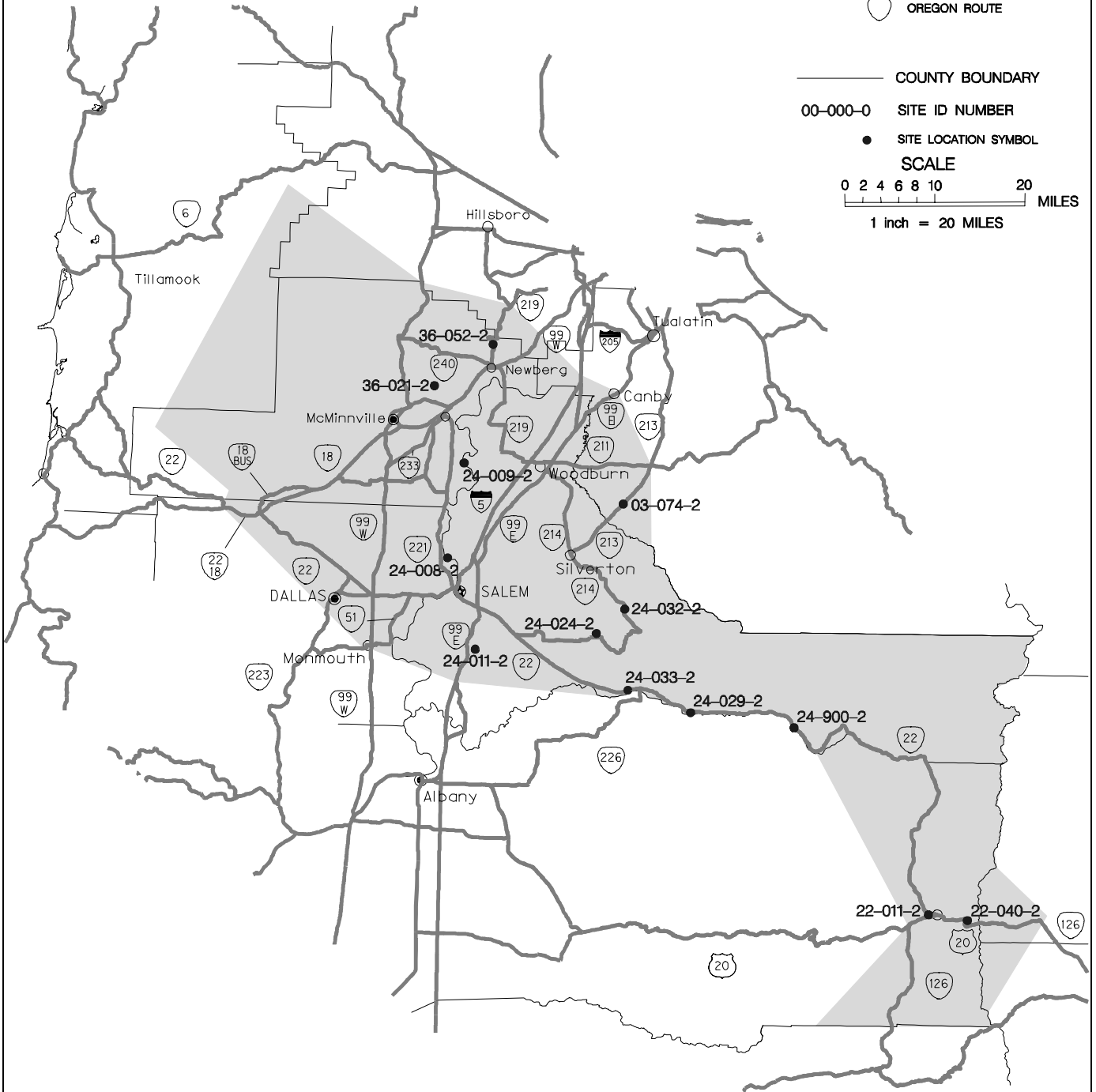
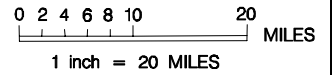
-  INTERSTATE
-  U.S. ROUTE
-  OREGON ROUTE

— COUNTY BOUNDARY

00-000-0 SITE ID NUMBER

● SITE LOCATION SYMBOL

SCALE



List of Sites in District 3

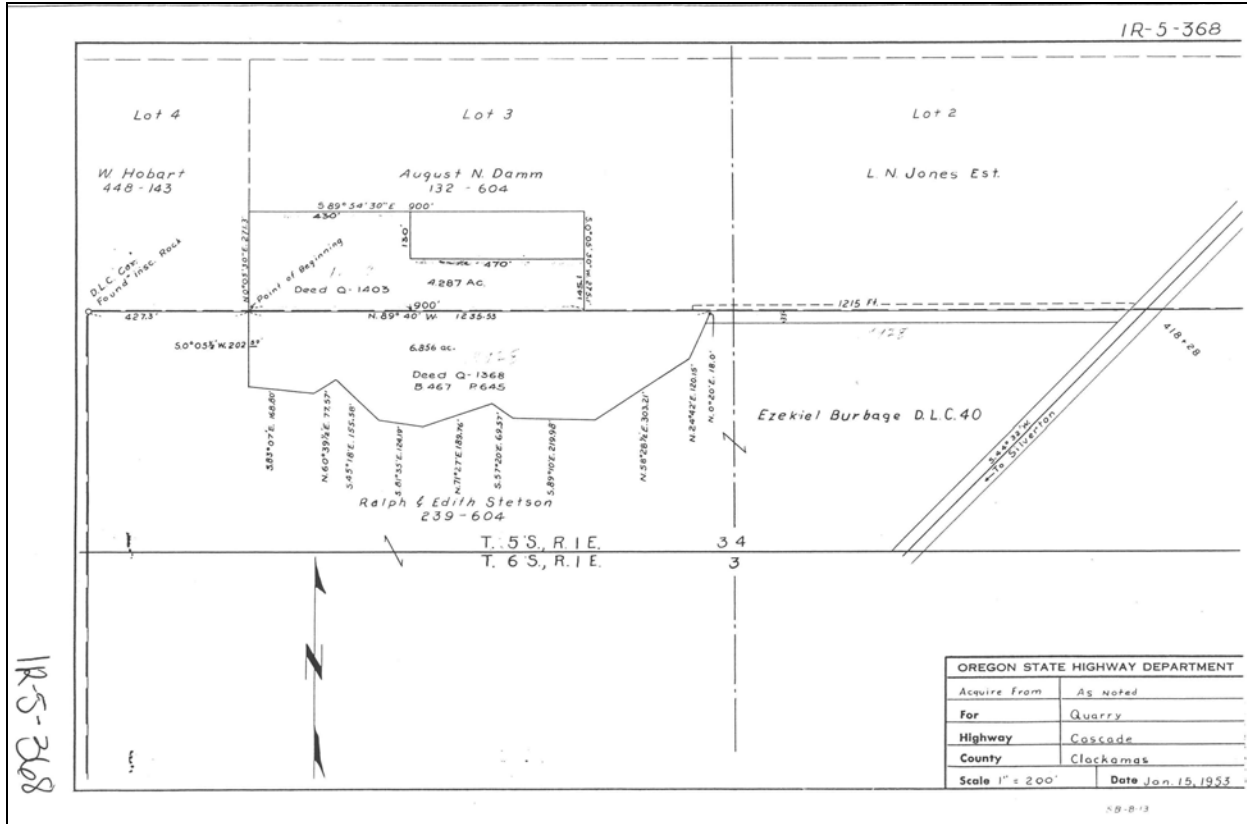
Source Numbers

03-074-2	2
22-011-2	4
22-040-2	6
24-009-2	8
24-011-2	10
24-024-2	12
24-029-2	14
24-032-2	16
24-033-2	18
24-900-2	20
36-021-2	22
36-052-2	24

County	Site Name				Dist	Hwy	Mile Pt	TWP	RGE	Sect
Clackamas	Marquam Quarry				03	0160	21.5	05S	01.0E	34
File ID		Source #	Date Visited	Map #		Type of Site				
19929, 19928		03-074-2	12/17/1998	1R-5-368		Raw Land				
Latitude	Longitude	Elev. (m)	Acreage	Pit Size	DOGAMI Permit #					
45 05'14.36811"	122 40'01.53739"	84.731	11.98	NA						
Comments										
GPS acquired at the access point and Highway 213.										
Rock Type	Unit	Color		Weathering		Jointing				
Basalt	Tub	Olive Grey (5Y 3/2)		Slight to Moderate		Undetermined				
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)				
Fair			R3+	161	80,000	173,880				
Potentially Significant Site	Why			Open/Closed	Direction					
No	Rock is not proven, and this site is located in an area of homes on acreage.			Closed	Small creek south by fence line.					
Adjacent Land Use										
Farming/Ranching/Winery/Residences close by.										
Remarks										
This site is west of Highway 213 about 250 meters. This ground is all natural with no past disturbance. The site has no exposures to examine the rock but the basalt float appears to be of marginal quality. There could be up to 6 feet of overburden at this location. There is some screening from Highway 213 and room to work. The terrain is fairly flat and partially fenced. This site has wetland/mitigation potential on the southern boundary. There is a winery to the north about 400 meters. Large grove of 2nd growth firs and wetland adjoins the property to the south.										
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.		
Material Use										



View of the area with the basalt exposed along a cat-cut.

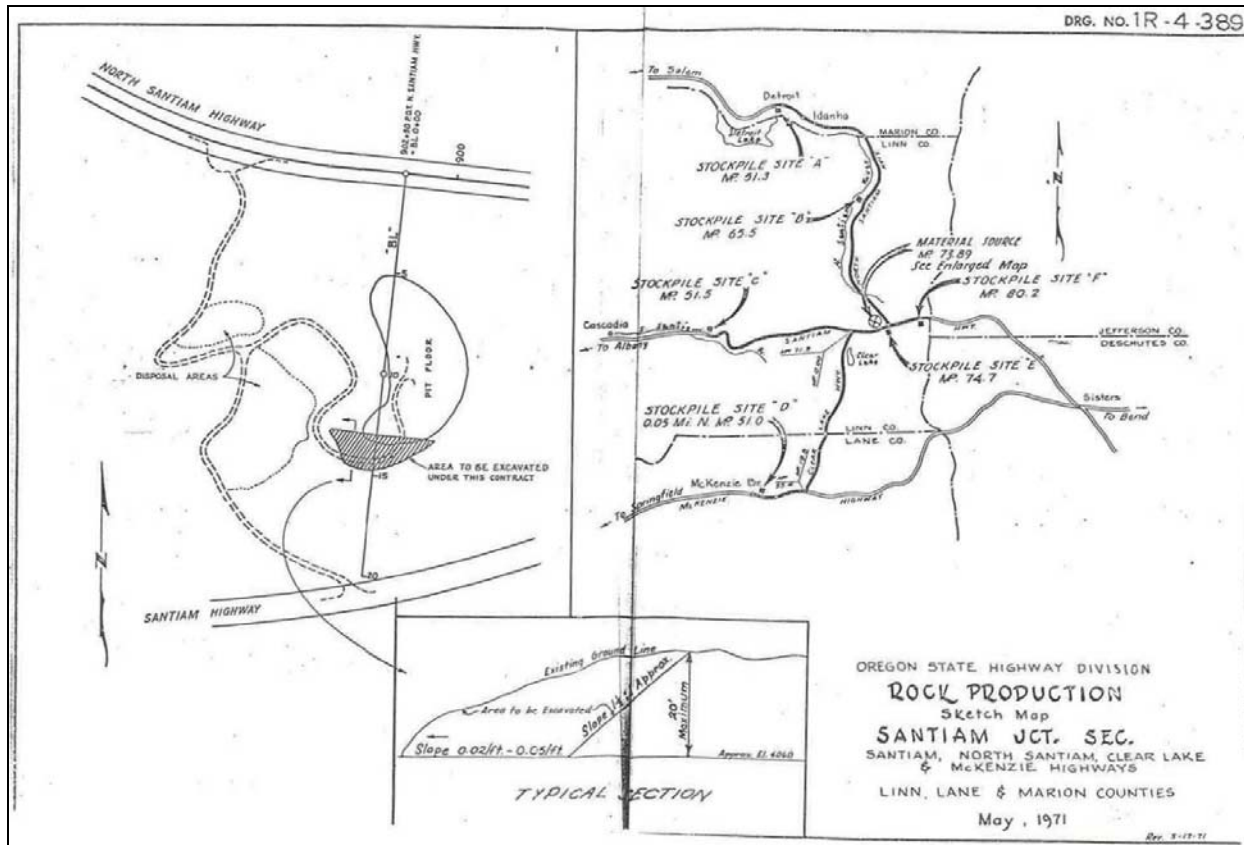


Aerial view of the site (left arrow) and the surrounding area.
Arrow on the right side is the start of the access road.

County	Site Name				Dist	Hwy	Mile Pt	TWP	RGE	Sect
Linn	Junction Cinder Pit				03	0016	73.9	13S	07.0E	15
File ID		Source #	Date Visited	Map #			Type of Site			
NA		22-011-2	7/29/1999	1R-4-389			Cinder Pit			
Latitude	Longitude	Elev. (m)	Acreage	Pit Size	DOGAMI Permit #					
44 26'12.96159"	121 57'26.1303"	1193.321	70	<20	22-0066					
Comments										
GPS acquired in the pit on the crusher level.										
Rock Type	Unit	Color		Weathering			Jointing			
Cinder	QTp	NA		NA			NA			
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)				
Very Good			NA	120	1,750,000	2,835,000				
Potentially Significant Site	Why				Open/Closed	Direction				
No	Good close sanding source for Highway's 20 and 22.				Closed	NA				
Adjacent Land Use										
Forest										
Remarks										
This is a cinder cone that we lease from the Forest Service located at the junction of Highway's 22 and 20. There is good screening and ample room to work. The quantity calculation is based on a 100 foot lift to a base level of 3900 feet. There was a private contractor crushing some scoriaceous basalt for Maintenance. He informed me that he was going to crush 100,000 cubic yards. This site is one of the only sanding sources for Region 2. It is very important that we keep this site open.										
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.		
Material Use										



Looking to the north at the upper cinder pit.
At the arrow is a portable crusher making sanding material for the winter of 2000.



Aerial view of the cinder pit in relation to Highway's 22 and 20.

County	Site Name				Dist	Hwy	Mile Pt	TWP	RGE	Sect
Linn	Hog Pass Quarry				03	0016	79.4	13S	07.5E	23, 26
File ID		Source #	Date Visited	Map #			Type of Site			
28793		22-040-2	7/26/2001	1R-5-1195			Quarry			
Latitude	Longitude	Elev. (m)	Acreage	Pit Size		DOGAMI Permit #				
44 25'30.82693"	121 52'09.95543"	1468	10	<2						
Comments										
GPS acquired in the pit.										
Rock Type	Unit	Color	Weathering				Jointing			
Andesite	Tus	Med. Grey	Fresh				Highly Fractured			
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)				
Good			R3+	182	140,000	539,055				
Potentially Significant Site	Why			Open/Closed	Direction					
No	USA ground.			Closed	NA					
Adjacent Land Use										
Open Space										
Remarks										
This site is located north of Highway 20/126 approximately 250 meters. The rock here is a fine to medium-grain highly fractured andesite. A large portion of the rock at this location is very platy and brittle. The terrain is moderate to very steep, with good screening and limited room to work. You can rip the rock and acquire minor rip rap. 150,000 cubic yards have been removed. USA ground.										
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.		
2.57	2.45	27.73	2.33	0.36	15.3	0.2	17.0	0.3		
Material Use										
Base, AC (1979)										



View of the quarry site looking west across the access road.



View looking east from the top of the quarry down to the access road.



Aerial view of the quarry site in relation to Highway 20/126.

County	Site Name			Dist	Hwy	Mile Pt	TWP	RGE	Sect
Marion	Mahony Bar Quarry			03	0140	0	05S	03.0W	11
File ID		Source #	Date Visited	Map #		Type of Site			
21189, 21188		24-009-2	4/29/1999	1R-5-474		Gravel			
Latitude	Longitude	Elev. (m)	Acreage	Pit Size		DOGAMI Permit #			
45 08'46.34337"	123 01'52.40309"	30.549	25.6	NA		24-0019			
Comments									
GPS acquired along the river.									
Rock Type	Unit	Color		Weathering		Jointing			
Volcanic Gravel	NA	NA		NA		NA			
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)			
Good			NA	120	300,000	486,000			
Potentially Significant Site	Why			Open/Closed	Direction				
No	Narrow piece of ground, potential wetland/salmon mitigation site, large proportion of sands.			Closed	Adjacent to the Willamette River.				
Adjacent Land Use									
Farming									
Remarks									
This site is located about 5 miles south of St. Paul on the Willamette River. The gravel here is composed of well-rounded to sub-rounded clasts with the dominant size around 4 centimeters. There is a high percentage (40%) of sand/organics at this location. The river is deeper with less energy here and tends to deposit more sand than gravel at times of high water. There is little to no evidence of past disturbance and the site is overgrown with vegetation. There is some room to work and great screening. The haul road bisects a farm and is open to the public. This location could be a site for wetland and/or salmon mitigation. The property is within the flood plain.									
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.	
	2.74	18.2	4.3		17.48	1.4			
Material Use									
River Run Gravel (July 30,1967)									

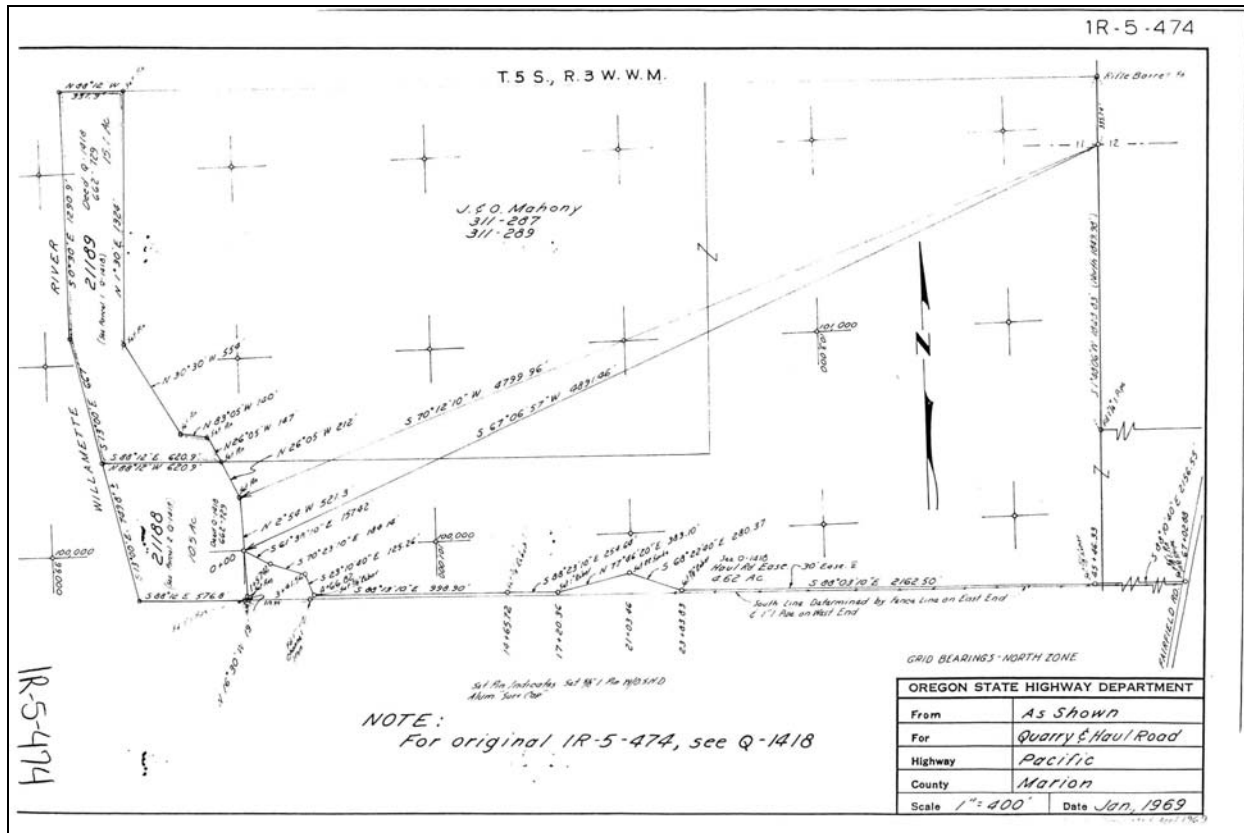
NW

NE



View looking north at the site and the surrounding area. Most of the light-colored area is composed of sand.

Close-up view of the gravel with the hammer for scale.



Aerial view of the site (left arrow) and the surrounding property along the Willamette River. The right arrow points to the access point.

County	Site Name				Dist	Hwy	Mile Pt	TWP	RGE	Sect
Marion	Baker Creek Quarry				03	0001	0	08S	02.0W	25
File ID		Source #	Date Visited	Map #		Type of Site				
19753, 40003		24-011-2	12/03/1998	1R-5-348		Quarry				
Latitude	Longitude	Elev. (m)	Acreage	Pit Size	DOGAMI Permit #					
44 50'48.90302"	122 59'36.20537"	104.833	29.71	<3						
Comments										
GPS acquired at the access gate.										
Rock Type	Unit	Color		Weathering		Jointing				
Basalt	Tc	Medium Dark Grey (N4)		Fresh to Slight		Highly Fractured				
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)				
Good			R4	168	720,000	1,632,960				
Potentially Significant Site	Why			Open/Closed	Direction					
No	Large acreage, good quality rock, good screening, not many sites in this area, but the quantity does not meet the Willamette Valley classification of aggregate sites for Goal 5.			Closed	Battle Creek is located to the southwest across the county road about 300 meters.					
Adjacent Land Use										
Residential										
Remarks										
This site is located about 2 miles south of Salem on Battle Creek Road. The property is being used as a waste site/bone-yard. The rock at this location a fine-grain basalt of good quality. You would need to drill and blast the rock. There is very little overburden to deal with but plenty of trees. There is good screening from all vantage points and plenty of room to work or stage from. The site is surrounded by homes on acreage. A draw with seasonal water bisects the property and would need to be handled if the pit were to be expanded. The terrain is moderately steep. Access to this site should be evaluated for safety reasons as the county road has a blind corner here that could pose a problem. This site is used by Maintenance now for a bone-yard, waste area. This is a good site with good rock and room to work. Encroachment of homes in this area has reduced this property to minor status.										
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.		
	2.82	27.96					26.16	4.1		
Material Use										
Quarry Dice Rock Feb. 17,1971										

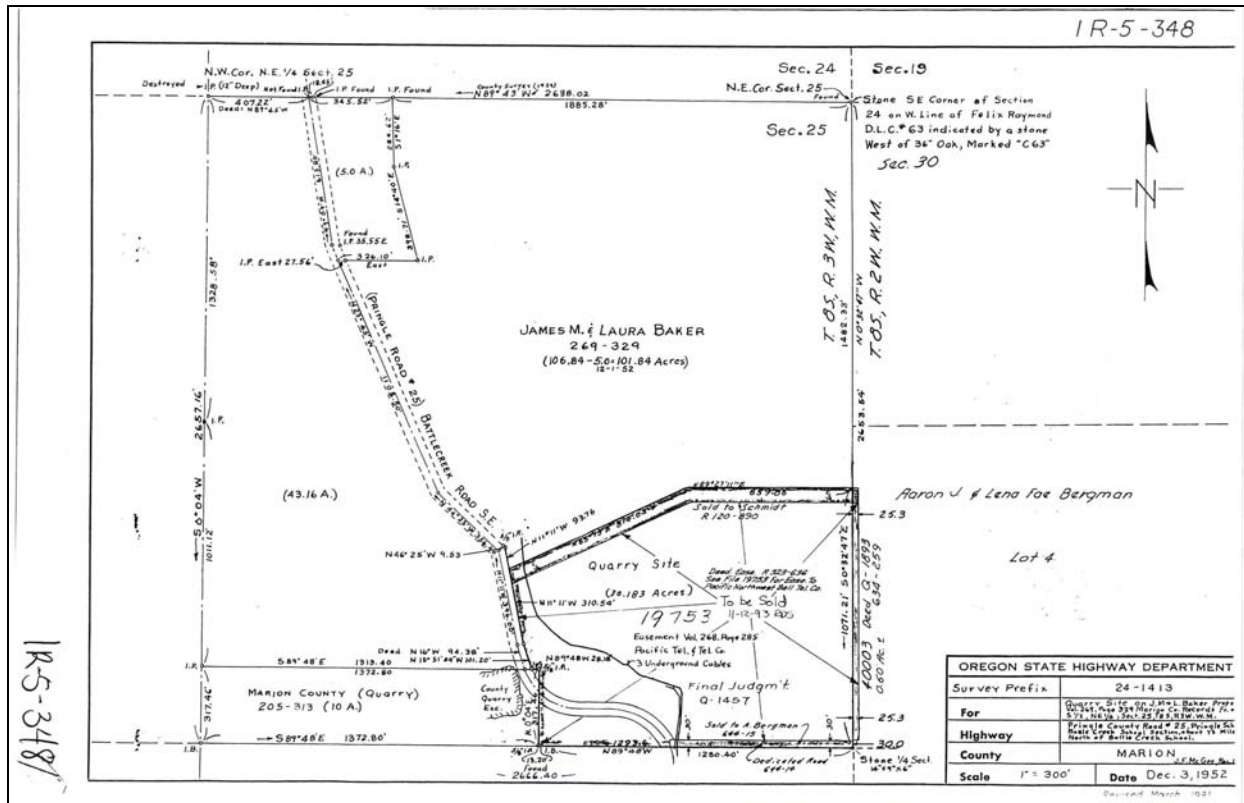
N

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Looking to the north at the quarry site and stockpile location.

View of the fracture pattern of the basalt at the site with the hammer for scale.

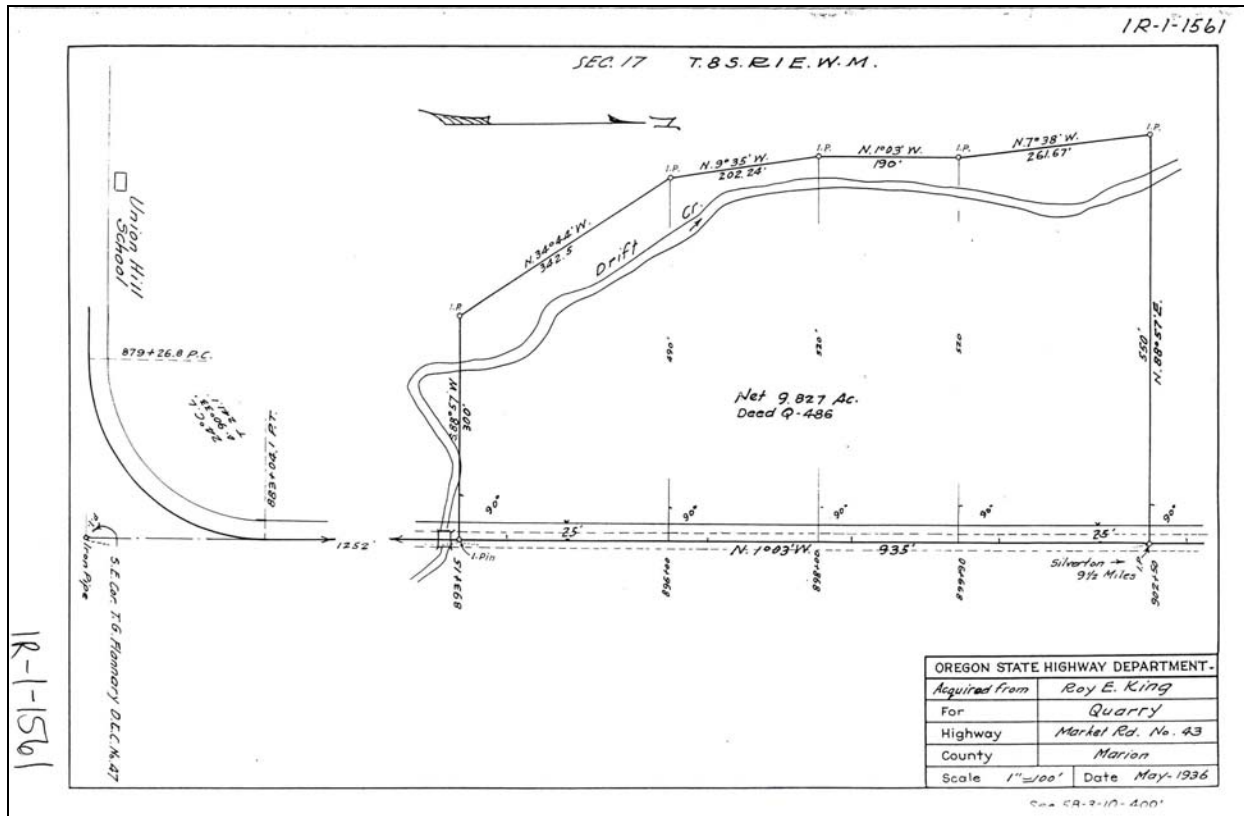


Aerial view of the quarry site and surrounding area.

County	Site Name				Dist	Hwy	Mile Pt	TWP	RGE	Sect
Marion	Drift Creek Quarry				03	0163	0	08S	01.0E	17
File ID		Source #	Date Visited	Map #		Type of Site				
03298		24-024-2	12/09/1999	1R-1-1561		Quarry				
Latitude	Longitude	Elev. (m)	Acreage	Pit Size	DOGAMI Permit #					
44 52'40.43947"	122 43'11.84412"	282.361	10.36	<4	24-0020					
Comments										
GPS acquired at the access point.										
Rock Type	Unit	Color		Weathering		Jointing				
Basalt	Tc	Medium Dark Grey (N4)		Fresh		Highly Fractured				
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)				
Good to Very Good			R4+	185	100,000	249,750				
Potentially Significant Site	Why			Open/Closed	Direction					
No	Not much rock left.			Closed	Adjacent is the West Fork of Drift Creek.					
Adjacent Land Use										
Farming										
Remarks										
This site is located just north of the intersection of Highway 214 and Drift Creek Road. The rock here is a fine-grain basalt from the Columbia River Group. It is highly fractured and has very little weathering. You will need to drill and blast the rock here due to its competency. There is little to no overburden to deal with. The site has some room for work and very limited screening from the roadway. The property is not fenced and has no gate to protect the site. This could pose a danger with the pit about 15 feet below ground level. Most of the rock has been used and a site plan to extract the remaining reserve should be developed. There is a good berm between Drift Creek and the pit floor which is flat. Future plans for this site could be for a staging area or waste site after all of the rock is removed. The quality of the rock in this area is very good and the surrounding area should be evaluated for future quarry sites.										
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.		
Material Use										



Looking to the east at the access point (center) and the pit to the right side of the image.



Close-up view of the fracture pattern with the 4lb. maul for scale.

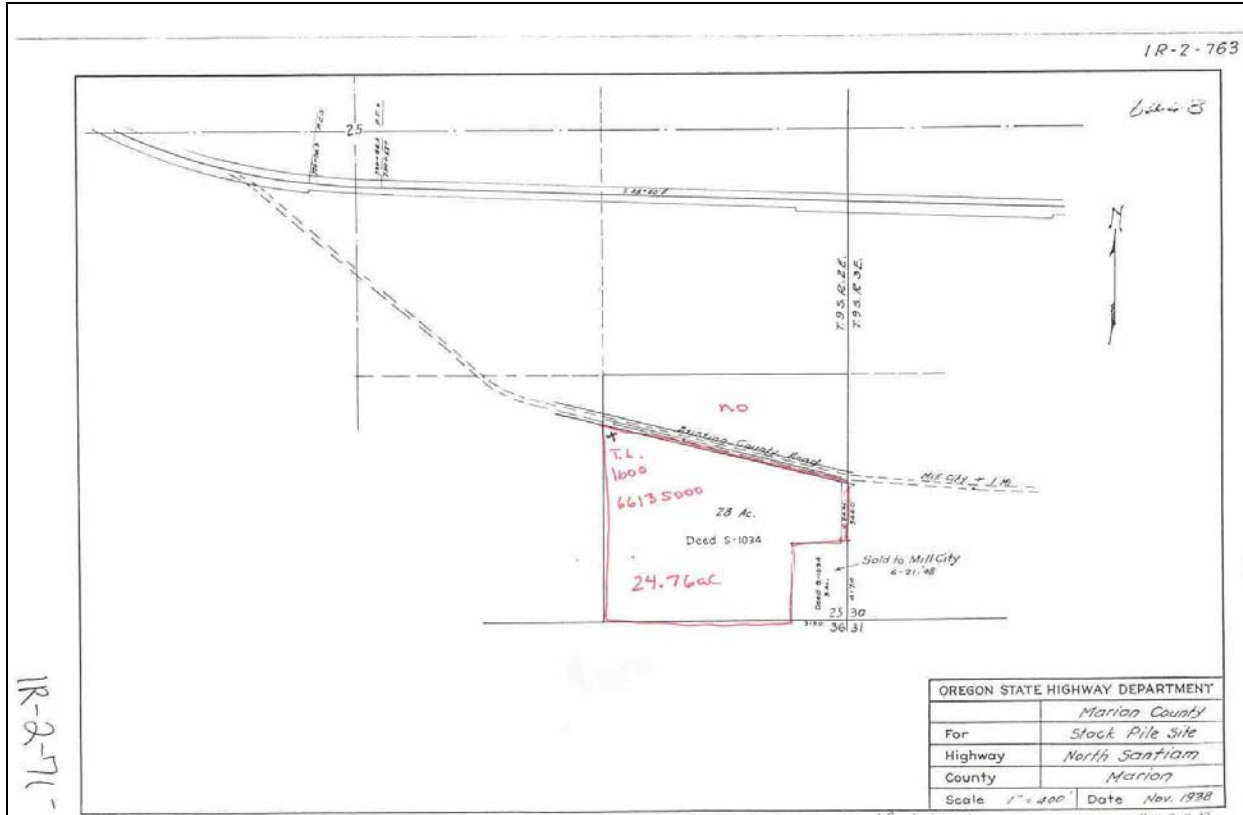
County	Site Name			Dist	Hwy	Mile Pt	TWP	RGE	Sect
Marion	Mill City Pit			03	0162	0	09S	02.0E	25
File ID		Source #	Date Visited	Map #			Type of Site		
06448		24-029-2	3/15/2000	1R-2-763			Gravel		
Latitude	Longitude	Elev. (m)	Acreage	Pit Size		DOGAMI Permit #			
44 45'16.02786"	122 30'08.56265"	235.822	24.76	NA		24-0050			
Comments									
GPS acquired at the access gate.									
Rock Type	Unit	Color		Weathering			Jointing		
Volcanic Gravel	NA	NA		NA			NA		
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)			
Fair to Good			NA	120	360,000	583,200			
Potentially Significant Site	Why			Open/Closed	Direction				
No	This is a good location along Highway 22 with a large quantity of gravel here.			Closed	The Santiam River is to the south about 50 meters.				
Adjacent Land Use									
Rural residential, one residential home to the east about 400 meters.									
Remarks									
This site is adjacent to and south of the Mill City road. From the surrounding ground the rock is a heterogeneous mix of fine to porphyritic volcanic gravel. The size ranges from small boulder (10%), cobble (40%), pebble (30%), and sand (20%) sizes. There is fair screening and plenty of room to work here. The ground is about 15 feet above the Santiam River. This property is all over grown in vegetation and has some timber value. The property is used for a minor waste site.									
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.	
Material Use									



Looking to the south at the access gate and the site beyond.



Close-up view of the igneous boulders with the hammer for scale.



Aerial view of the site along the Santiam River.
The treed portion of the image is the property.

County	Site Name				Dist	Hwy	Mile Pt	TWP	RGE	Sect
Marion	Alm Quarry				03	0163	30.7	07S	01.0E	35
File ID		Source #	Date Visited	Map #		Type of Site				
02693		24-032-2	12/10/1998	1R-1-1527		Quarry				
Latitude	Longitude	Elev. (m)	Acreage	Pit Size	DOGAMI Permit #					
44 55'05.76134"	122 39'26.60491"	464.189	4.95	<1						
Comments										
GPS acquired at the access point and Highway 214.										
Rock Type	Unit	Color		Weathering		Jointing				
Basalt	Tc	Medium Dark Grey (N4)		Fresh to Slight		Moderate to Highly Fractured				
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)				
Good			R4+	175	40,000	94,500				
Potentially Significant Site	Why			Open/Closed	Direction					
No	Small acreage, limited amount of rock.			Closed	A small seasonal creek bisects the eastern portion of the property.					
Adjacent Land Use										
Forest/Farming/ One residence is adjacent to the north.										
Remarks										
This site is located off of Highway 214 up near Drakes crossing. It is a small piece of ground with limited rock left. The rock is a fine-grain basalt of the Columbia River Group that has very little weathering. You will need to drill and blast at this location. The past disturbance has produced about 32,000 cubic yards of rock here. There is some screening and limited room to work. One residence is adjacent to the northern property boundary. We have a small pit approximately 80 meters square that is pushed up to our north property line. A small seasonal draw bisects the property near the eastern boundary. A small stock pile remains near the west side of the property. The terrain is fairly flat and should pose no problem. Minor amount of timber.										
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.		
	3	14.0		2.0	9.8	.3				
Material Use										
AC (1992)										

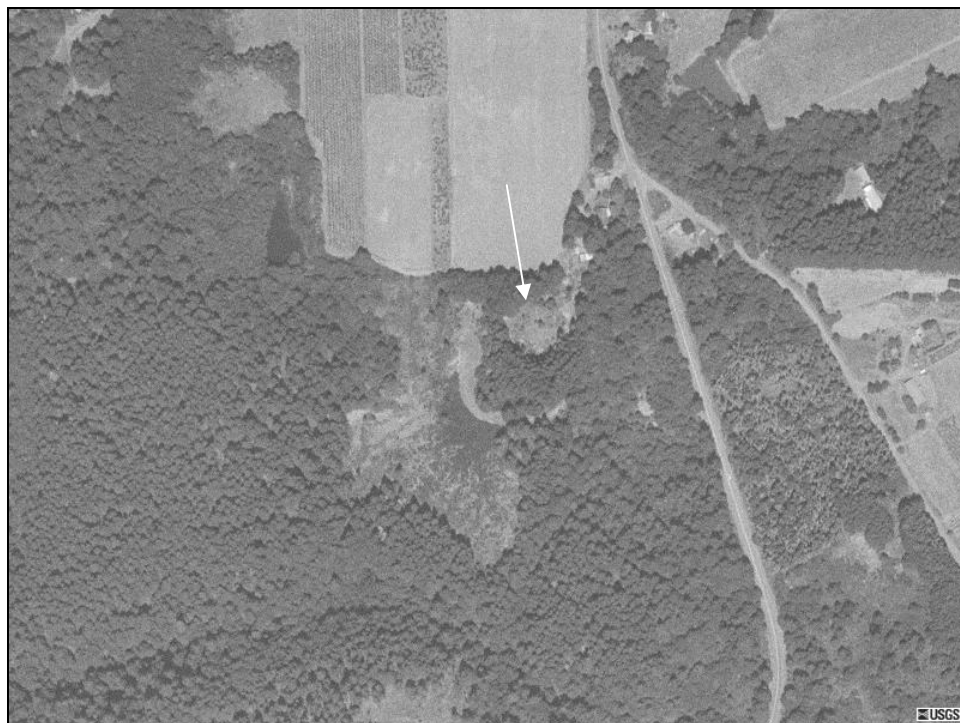
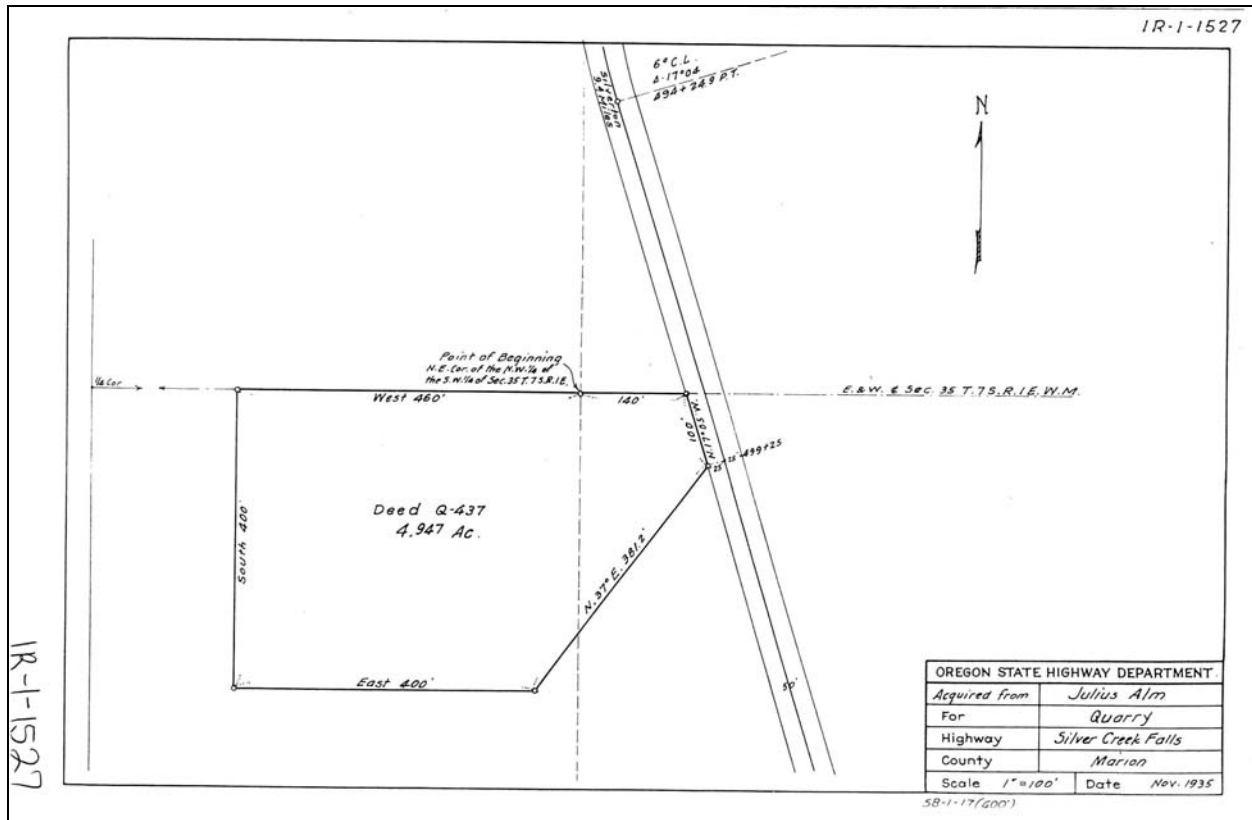
S

N



180 degree view of the pit looking west.

Close-up view of the basalt rock.

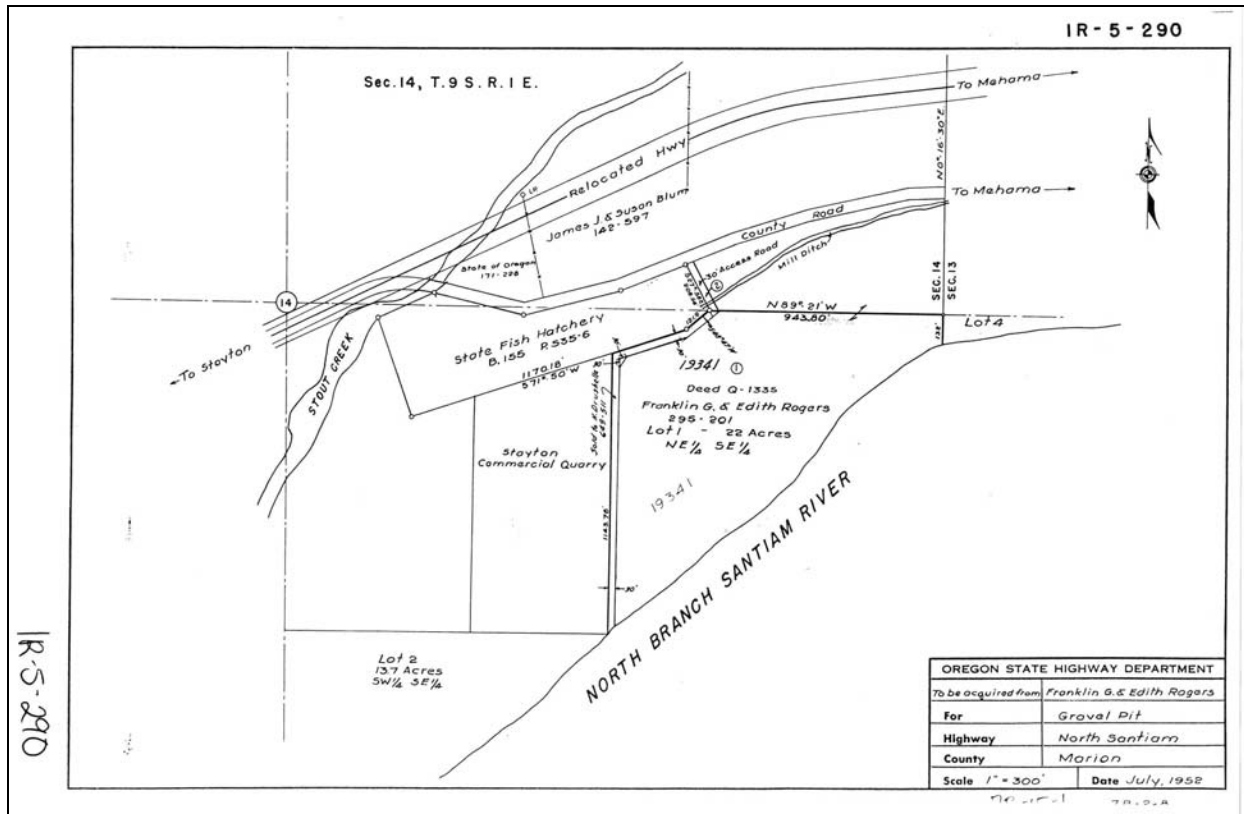


Aerial view of the site along Highway 214. The arrow points to the pit.

County	Site Name				Dist	Hwy	Mile Pt	TWP	RGE	Sect
Marion	Stout Creek Quarry				03	0162	16.8	09S	01.0E	14
File ID		Source #	Date Visited	Map #			Type of Site			
19341		24-033-2	12/07/1998	1R-5-290			Gravel			
Latitude	Longitude	Elev. (m)	Acreage	Pit Size		DOGAMI Permit #				
44 47'16.75928"	122 38'42.28207"	185.951	21.04	NA		24-0094				
Comments										
GPS acquired at the access gate.										
Rock Type	Unit	Color		Weathering			Jointing			
Volcanic Gravel	NA	NA		NA			NA			
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)				
Fair to Good			NA	120	80,000	129,600				
Potentially Significant Site	Why			Open/Closed	Direction					
No	Limited rock, and in an area of rural homes.			Closed	Adjacent to the Santiam River.					
Adjacent Land Use										
Residential										
Remarks										
This site is located about 2 miles west of Mehama on the Santiam River. The property is within the flood plain and has standing water at various locations. The gravel estimate is based on a 5 acre pit 10 feet deep. There are no exposures to evaluate the rock, but from the surrounding area I have classified it as fair to good quality. Most of the gravel along the Santiam River is a volcanic porphyry. The ground is used as a bone-yard and waste site area now. There is no screening but plenty of room to work. There are residential homes adjacent to the north and west here. This site could be used for wetland mitigation due to the standing water. The County Assessors office has the property listed at 48.25 acres. This discrepancy between our records and theirs could be accounted for by the movement of the Santiam River. Possible wetland mitigation.										
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.		
Material Use										



Looking to the west at the stockpile site. The access gate is to the far right center of the image.

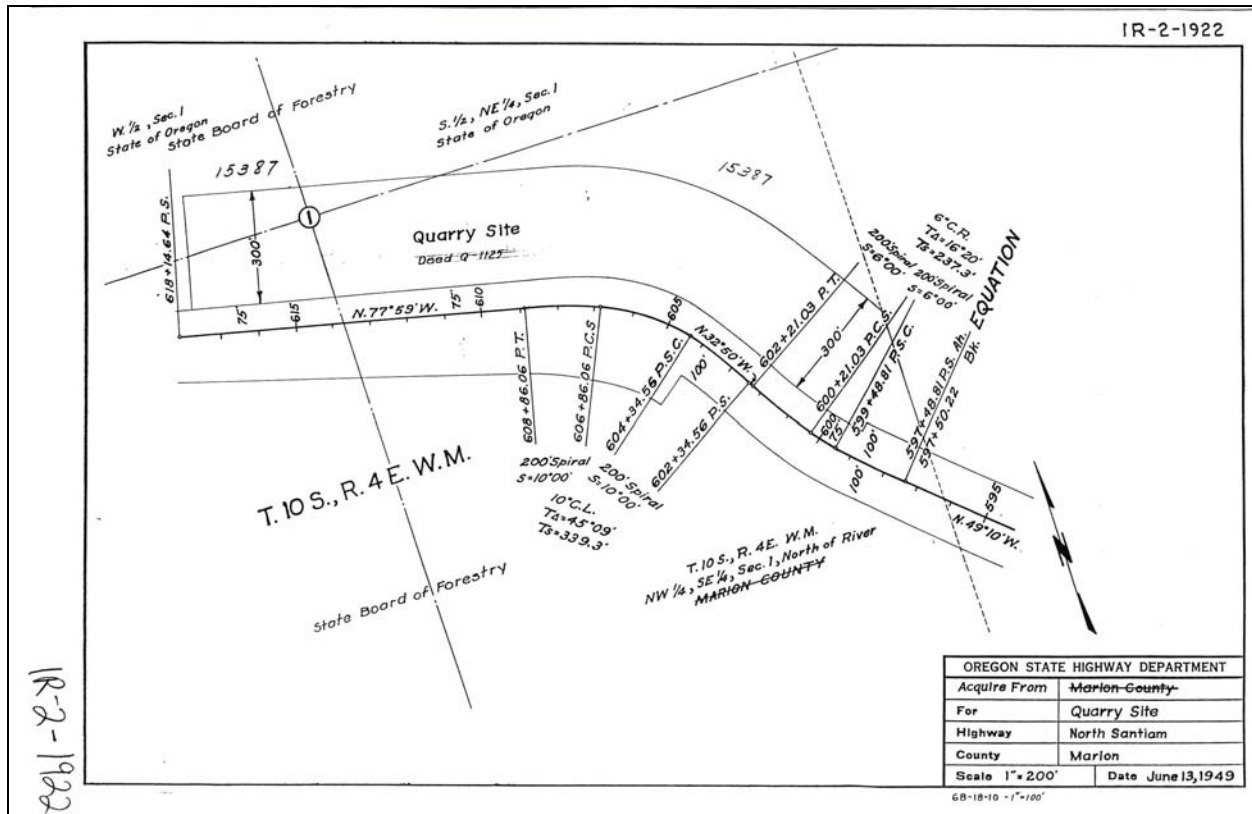


Aerial view of the site along the Santiam River.

County	Site Name			Dist	Hwy	Mile Pt	TWP	RGE	Sect
Marion	Big Cliff Quarry			03	0016	0	10S	04.0E	01
File ID		Source #	Date Visited	Map #			Type of Site		
15387		24-900-2	8/10/1999	1R-2-1922			Road Cut		
Latitude	Longitude	Elev. (m)	Acreage	Pit Size		DOGAMI Permit #			
44 44'21.52918"	123 03'14.56952"	55.581	20.78	NA					
Comments									
GPS acquired in a small pit/roadcut									
Rock Type	Unit	Color	Weathering			Jointing			
Diorite	Thi in Tu	NA	Slight to Moderate			Highly to Moderately Fractured			
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)			
Fair to Good			R4	120					
Potentially Significant Site	Why		Open/Closed	Direction					
No	Too narrow/very steep, no room to work.		Closed	To the south across Highway 22 approximately 150 meters is Big Cliff Reservoir.					
Adjacent Land Use									
Forest									
Remarks									
This is a fine to medium-grain diorite that is highly fractured along Highway 22. The site is across the road from the entrance to the boat ramp for the Big Cliff Reservoir. The terrain is very steep with no screening and no room to work. What limited space there is being used for waste rock disposal. There are high power transmission lines that bisect the property on our northern boundary. The ground has little to no overburden. This site would be very difficult to develop. A better classification for this site would be Right of Way along Highway 22.									
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.	
Material Use									



Looking to the north at the site along Highway 22. Note the high power lines in the upper left center of the image.



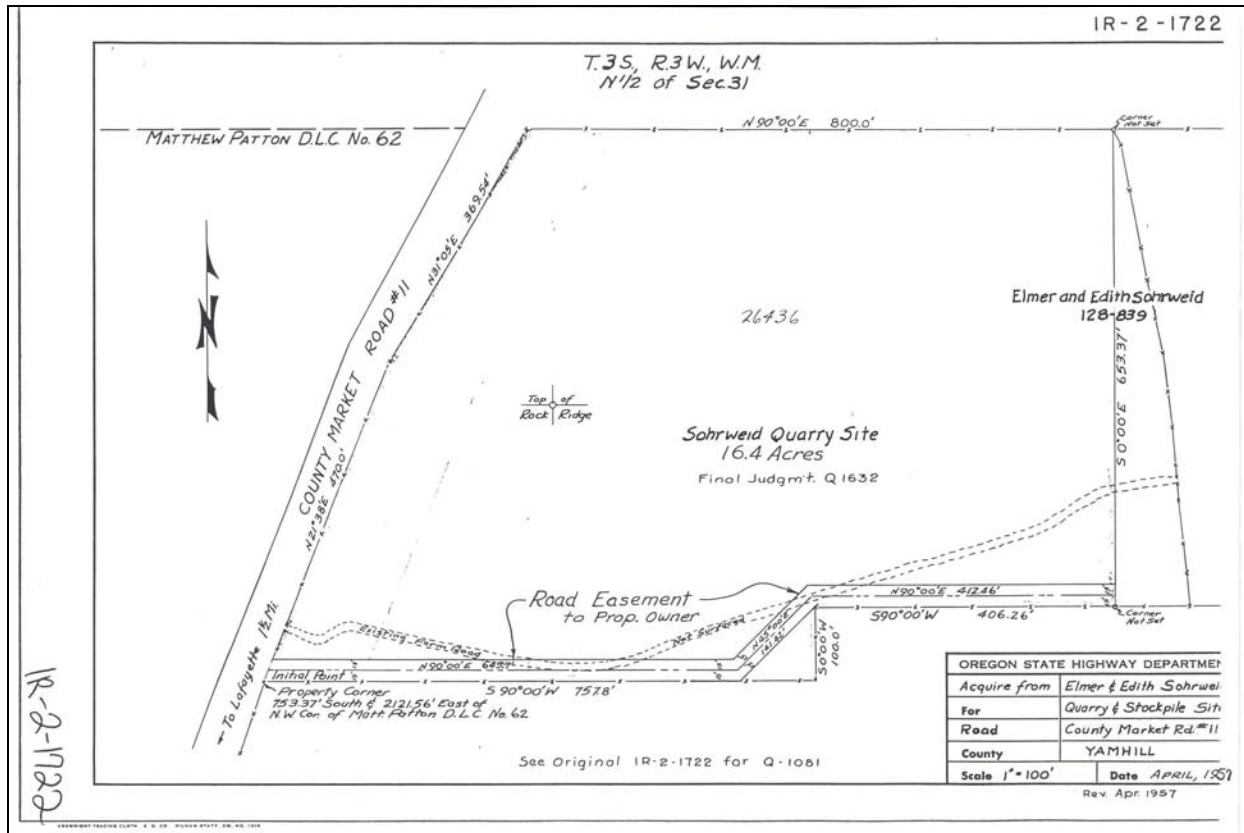
Close-up view of the fracture pattern with the hammer for scale.

County	Site Name				Dist	Hwy	Mile Pt	TWP	RGE	Sect
Yamhill	Sohrweid Quarry				03	0091	32.9	03S	03.0W	31
File ID		Source #	Date Visited	Map #		Type of Site				
13558, 26436		36-021-2	12/14/1998	1R-2-1722		Quarry				
Latitude	Longitude	Elev. (m)	Acreage	Pit Size	DOGAMI Permit #					
45 16'08.03542"	123 06'16.68459"	57.351	16.38	<1	36-0041					
Comments										
GPS acquired at locked gate.										
Rock Type	Unit	Color		Weathering		Jointing				
Basalt	Tcg	Medium Dark Grey (N4)		Slight		Highly Fractured				
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)				
Fair to Good			R3 to R4	169	350,000	798,525				
Potentially Significant Site	Why				Open/Closed	Direction				
No	Good location, limited number of sites in this area, but the quantity does not meet the Willamette Valley classification of aggregate sites for Goal 5..				Closed	West across the County road is Millican Creek.				
Adjacent Land Use										
Farming										
Remarks										
This site is located north of Lafayette about 2 miles. The site has had limited work done to open up the ground to expose a medium-grain basalt. There is some slight to moderate weathering here. You can rip the material now, but would need to drill and blast once you start to work in fresher rock. There is good screening with ample room to work. You could have up to 6 feet or more of overburden here. There is some timber value here. There is a small amount of crush rock here (1000 cubic yards).										
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.		
Material Use										

W



Looking to the west at the pit with some crushed aggregate stockpiled.
Close-up image is area shown with arrow.



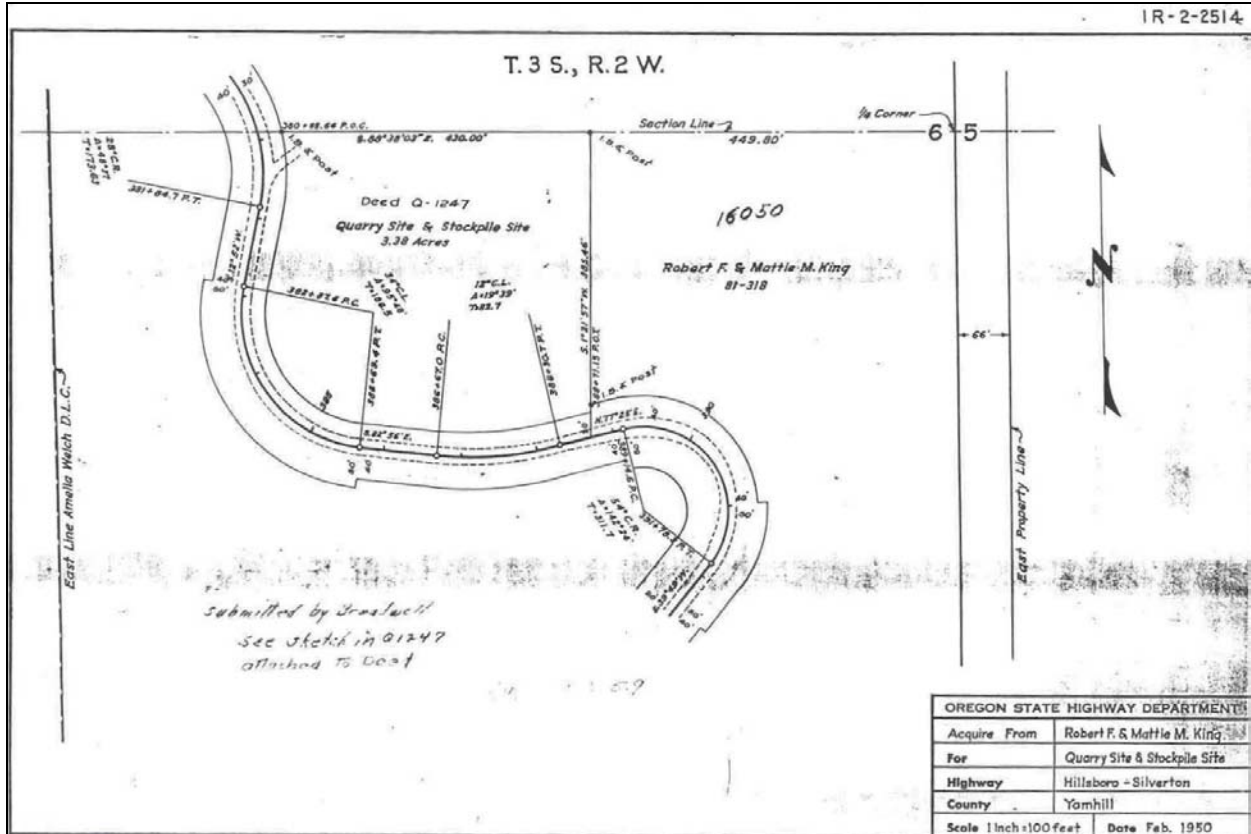
Close-up view of the basalt showing the weathered horizon and the fracture pattern.

County	Site Name			Dist	Hwy	Mile Pt	TWP	RGE	Sect
Yamhill	Chehalem Mountain Quarry			03	0140	17.3	03S	02.0W	06
File ID		Source #	Date Visited	Map #			Type of Site		
16050		36-052-2	12/14/1998	1R-2-2514			Quarry		
Latitude	Longitude	Elev. (m)	Acreage	Pit Size		DOGAMI Permit #			
45 20'18.3674"	122 58'24.8976"	163.591	3.92	<1					
Comments									
GPS acquired along Highway 219									
Rock Type	Unit	Color		Weathering			Jointing		
Basalt	Tc	Medium Dark Grey (N4)		Slight			Highly Fractured		
Quality			Hardness	lbs./cu ft.	Reserve (cy)	Reserve (Tons)			
Poor to Fair			R3	155	18,000	37,665			
Potentially Significant Site	Why					Open/Closed	Direction		
No	No room to work, limited amount of rock, no screening from the road and in an area of residential homes.					Closed	NA		
Adjacent Land Use									
Residential									
Remarks									
This site is about 1 mile north of Newberg on Highway 219. The rock is a medium-grain basalt with limited exposures. There is no room to work, and no screening from the highway. You can rip the rock. This site is used as a waste rock location. The adjacent property owner to the north uses our ground for his yard. Overall this is a small piece of ground, right on the highway and in an area of residential homes.									
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.	
	2.79	18.1							
Material Use									
Weathered, Basalt Aug.13, 1957									

N



Looking to the north at the site along Highway 219.



Aerial view of the site and surrounding area along Highway 219.