

List of Sites in District 4

Source Number	
02-016-2	. 2
02-021-2	. 4
02-022-2	. 6
02-023-2	. 8
02-024-2	. 10
02-027-2	. 12
02-900-2	. 14
02-901-2	. 16
02-902-2	. 18
21-004-2	. 20
21-009-2	. 22
21-011-2	. 24
21-015-2	. 26
21-901-1	. 28
21-903-2	. 30
22-003-2	. 32
22-023-2	. 34
22-027-2	. 36
22-029-2	. 38
22-034-2	. 40
22-035-2	. 42
22-036-2	. 44
22-037-2	. 46
22-038-2	. 48
22-900-2	. 50
22_901_2	52

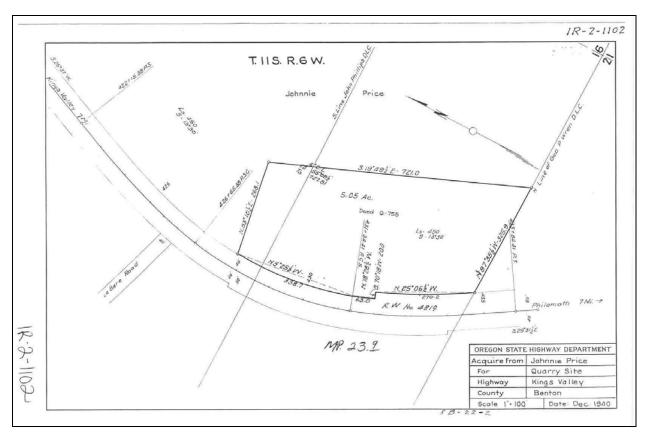
Countri			C:	ite Name				Dist	Шин	Mile I	t TWP	RGE	Sect	
County Benton			~-	Creek Ou	O PERT I			04	Hwy 0191	23.9	11S	06.0W	16	
Denton	File I	TD.	Reed	Source		Date Visi	4 - 3	04	V - / -	1ap #	113	Type o	10	
	Q075			02-01	-	1/25/19				2-1102		Qua	ry	
Latitud	•		ongitude	Elev.		Acreag	e		t Size		DOGAM	I Permit #		
44 36'29.80	131"	123	25'42.22807"	175.	678	5.05			<2					
						Comme	ıts							
GPS acquired i														
Rock Tyj	e	Unit		Color				Weatheri				inting		
Basalt		Tsr	Medium	Dark Gre	ey (N4	l)	Slig	ht to Mo	derate		Highly	Fractured		
		Qualit	y			Hardness	1	bs./cu ft.	R	eserve (cy) F	deserve (To	ns)	
Good to Fair R3 to R4 174 25,000 58,725														
Potentiall Significant S	,		Why		Op	oen/Closed	Direction							
No		Site alm	ost depleted	of rock		Closed		iinage fro und	om homes t	o the east	bisects sout	hern 1/3 of t	he	
					1	Adjacent La	nd Use	:						
Forest/Residen	tial													
						Remar	ζS							
from the highwrip the material stockpile site. approximately	Remarks This site is located adjacent to and east of Kings Valley Highway. The rock here is a fine-grain, highly fractured basalt. There is no screening from the highway, but there is room to work. This site is almost depleted of rock and should be evaluated for future production. You could rip the material for pit run, but most likely would need to drill and blast. This would be a good location for a waste site, bone-yard, or stockpile site. There is no gate or fence for this property. There are new homes to the east of this pit that could be of concern. They are approximately 250 feet from the high wall at our property boundary. I feel there should be a fence to protect anyone or thing from falling off the high wall to the pit below. This site should be evaluated for safety reasons. It might be possible to squeeze more rock from this site than													
202B 2	03B	211	1 20	6 Fine	2	06 Coarse	20	08 F	208 F	Ht.	208 C	208 C	Ht.	
- 2	2.84	16.8	2			5.93					19.0	0.0	3	
						Material	Use							
			•			•					•			





View to the east looking at the pit.

Close-up view of the basalt rock and the fracture pattern.





Aerial view of the site along Highway 223.

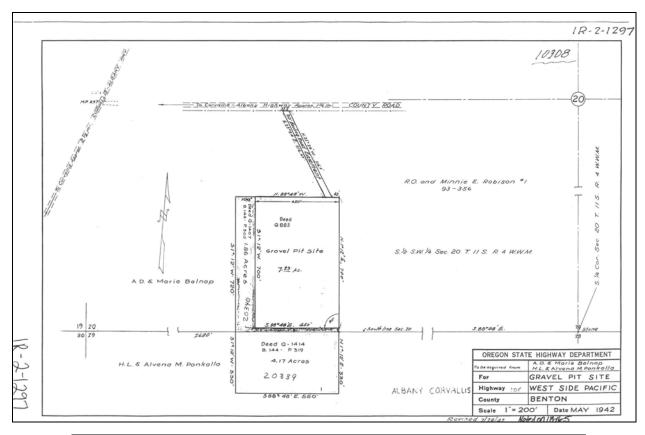
County			Si	ite Name				Dist	Hw	yy	Mile Pt	TWP	RGE	Sect		
Benton			Robison Pi	it/ Belknap Ç	uarry			04	003	31	2.6	11S	04.0W	20		
	File I	D		Source #	1	ate Visi	ted			Mar	#		Type of	f Site		
	10308, 2	0339		02-021-2	2	4/20/19	99			1R-2-	297		Grav	/el		
Latitud	e	L	ongitude	Elev. (n	1)	Acreag	e	Pi	t Size		Ι	OGAMI	Permit #			
44 35'43.98	356"	123	12'26.24043"	66.732		13.26			<6							
					(Commer	ıts									
GPS acquired a	at the eas	sement ar	nd Garden Ro	ad.												
Rock Typ	e	Unit		Color			1	Weatheri	ing			Joi	nting			
Volcanic Gr	avel	NA		NA				NA				1	NΑ			
	Quality Hardness lbs./cu ft. Reserve (cy) Reserve (Tons)															
		Good				NA		120			75,000 121,500					
Potentially Significant S				Why			C	pen/Clo	sed		Direction					
No		appears	the gravel ha that maintena e rock materi	nce is wanti				Closed			illamette simately .5		the south			
					Adja	cent La	nd Use	;								
Farming																
						Remark	KS									
This site is local homogeneous sabout 40% sand and ample roor on lowering or	size and d/silt and n to wor	distributi d 60% gra k. This si	on. It ranges avel at this lo ite also has po	in size from cation. This	sand up site is a	to 10 ce good sit	ntimet e for P	ers with t CC quali	the dor	ninant s	size around is good so	d 3 centing forces	neters. Ther from all dire	ections		
	03B	211		6 Fine	206 C	oarse	2	08 F	20	8 F Ht.	2	08 C	208 C	Ht.		
,					N	Iaterial	Use									

S NW



View of the borrow site looking west.

Close-up view of the gravel size.



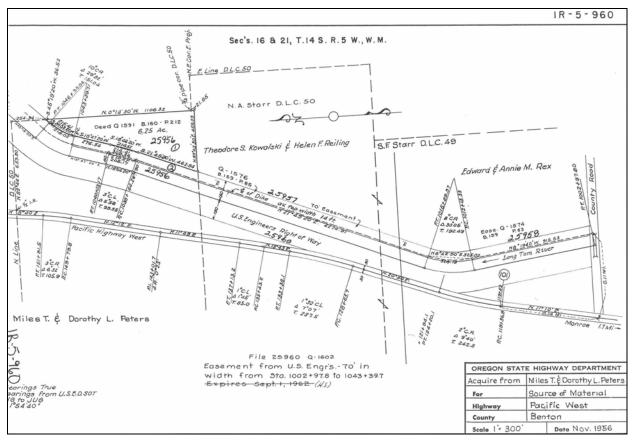


Aerial view of the gravel site and surrounding farm land.

County			Sit	te Name			Dist	Hwy	Mi	ile Pt	TWP	RGE	Sect			
Benton			F	Rex Pit			04	0091		0	14S	05.0W	16			
	File ID			Source #	Date V	isited			Map#							
25956	, 25957, 2	25958		02-022-2	4/20	/1999		11	R-5-960)		Grav	/el			
Latitude		Longi	tude	Elev. (m)	Acr	eage	Pit	t Size		D	OGAMI	Permit #				
44 21'02.2800	00"	123 17'33	.91000"	95	11	09	1	NA								
					Comi	nents										
Lat. and Long. ac	quired us	sing Terraii	n Navigat	tor Software												
Rock Type	υ	J nit		Color		,	Weatheri	ng		Č						
Alluvium	1	NA		NA			NA									
	Q	Quality			Hardne	ss l	bs./cu ft.]	Reserve							
		NA			NA		120		80,0							
Potentially Significant Sit	e			Why		0	Open/Clos	sed		Direction						
No	We	etland pote	ntial				Closed	A	djacent	to the I	ong Tom	River.				
					Adjacent	Land Use	e									
Residential/Farm	ing															
					Rem	arks										
	are home I revisite	es adjacent ed this site	to this si May of 2	te now. The a	access point ate the groun	is not evalue. The si	ident any te is adjac	more and cent to the	would river w	need to vith the	be locate easement	ed if we wis	east			
work with some	screening.	. This grou	nd has m	itigation pote	ential.											
202B 203	B	211	206	Fine	206 Coarso	2	08 F	208 F	Ht.	20	08 C	208 C	Ht.			
2.513																
					Mater	ial Use										



Aerial view (lower center) of the site along the Long Tom River. Upper arrow is the access road.





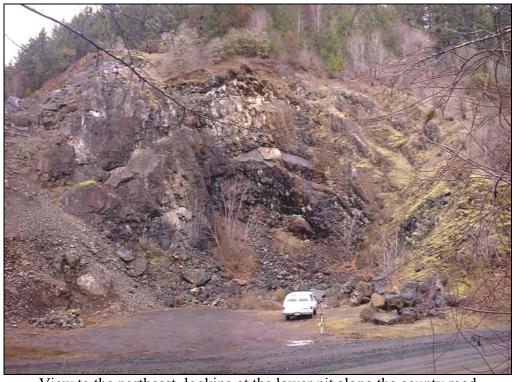
Close-up view of the gravel along the river.

County		Si	ite Name				Dist	Hw	v	Mile Pt	TWP	RGE	Sect				
Benton			sea Quarry				04	020		0.95	14S	07.0W	18				
Benton	File ID		Source #	Da	te Visite	d	<u> </u>	020	Mar		1.0	Type of					
	13504		02-023-2		1/26/1999)			1R-2-			Quar					
Latitude		Longitude	Elev. (m)	-	Acreage		Pit	t Size		Г	OGAMI	Permit #					
44 21'03.3950	8" 12	3 34'30.77719"			25.9			<1									
				C	omments	5											
GPS acquired in t	the pit.																
Rock Type	Unit		Color			,	Weatheri	ing		Jointing Moderate Fracture to Massive Serve (cy) Reserve (Tons) 400,000 896,400 Direction							
Basalt	Tsr	Medium	Dark Grey (N	4)			Fresh			Mod	erate Frac	ture to Mas	ssive				
	Qua	ity		Haro	dness	l	lbs./cu ft.		Rese	Moderate Fracture to Massiv serve (cy) Reserve (Tons)							
	Goo	d		R	24		166		4	00,000		896,400					
Potentially Significant Site	e		Why			C	Open/Clo	sed			Direction	n					
No	Highv	acreage, good of ay 34 but the quette Valley cla al 5.	uantity does no	ot meet	the		Closed		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			iver is acro oout 50 met					
				Adjac	ent Land	l Use	e										
Forest		·	<u> </u>														
				F	Remarks												

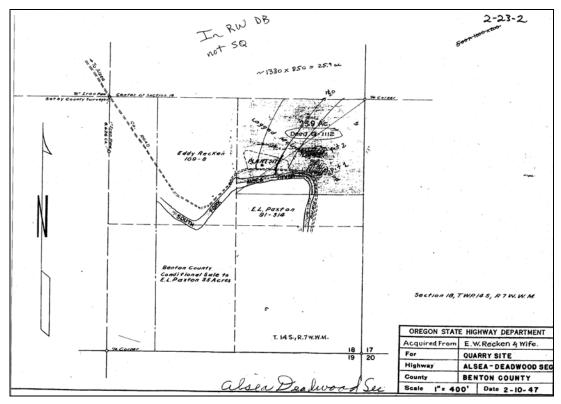
This site is adjacent to and north of South Fork County Road. The rock here is a medium-grain basalt with moderate mineral alteration along joint boundaries to zeolites. There is limited room to work due to the steep nature of the terrain. This site has some screening from the county road if you remove rock from the upper pit. There are large rip rap boulders from this site that could be used in the future. The bench cut or small pit adjacent to the county road is too tall (up to 55 feet) and should be cut down to a safer height. The upper pit appears to have been used the last time rock was removed from this location and it is well screened from the road. This site is categorized in the Right of Way data base as RW and should be changed to SQ. This area has very steep terrain and could pose problems in removing rock safely next to the county road. All work should be from the top down to maximize this site and make it a safe work place. You would definitely need to drill and blast the rock. This site needs a good survey and development plan for future work. With the steep terrain a site plan should have most

of the work proceed from the top down.

202B 203B 211 202B 208 C Ht. 206 Fine 206 Coarse 208 F 208 F Ht. 208 C 211 **Material Use** Quarry Rock (2001)



View to the northeast, looking at the lower pit along the county road



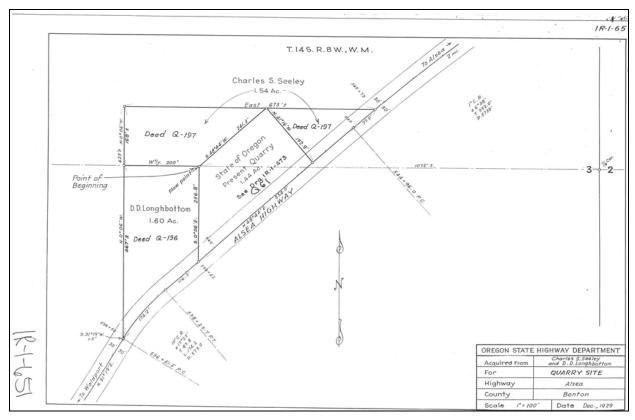


Close-up view of the rip rap in the lower pit.

Coun	ıtv		Si	te Name				Dist	Hv	vv	Mile Pt	TWP	RGE	Sect			
Bento	•			ely Quarry				04	002		38.3	14S	08.0W	03			
	File I	D		Source #	Da	te Visited				Map	#		Type of	f Site			
	Q0061, Q019	7, Q0196	5	02-024-2		3/30/1999			1R-	1-651, 1			Quar				
La	atitude	L	ongitude	Elev. (m)		Acreage		Pit	Size		Γ	OGAMI	Permit #				
44 22	'55.40603"	123 3	38'16.05501"	84.104		4.58			<1								
					C	omments											
GPS acqu	uired along Hi	ghway 34	and the ease	ement.													
Roc	k Type	Unit		Color			W	eatheri	ng			Joi	nting				
G	Gabbro Tsr Dark Greenish Grey (5G 4/1) Slight to Moderate Massive																
		Quality	y		Har	dness	lbs	s./cu ft.		Reserve (cy) Reserve (Tons)							
]	Fair to Go	ood		R3+	to R4		146		8	80,000 157,680						
	entially cant Site			Why			Op	en/Clos	sed		Direction						
1	No			och room to wo				Closed		Alsea F		miles acro	ss Highwa	y 34 to			
					Adjac	ent Land U	Use										
Farming/	Residences ac	ross the h	iighway.														
					F	Remarks											
and mass is steep a could pro been wor	is located adja sive. This rock and could pose oduce some go ked from the b	can be so some acc od rip rap oottom up	oft due to the cess problems b. The GPS is	weathering. T s. There is littl suspect and a	here is e to no curren	no screenin disturbance t boundary	ng fro e at th surve	om the had nis site. ey is ad	nighwa You v vised	ay and voweld ne would ne to locate	ery limite ed to dril the exact	d room to l and blas t boundari	work. The t this rock v es. This site	terrain which e has			
	rom the top do												***				
202B	203B	211		-	206 Co		208			8 F Ht.		08 C	208 C				
		26.0) 4	3.0	19.0		24.	.0		53.0	1 2	24.2	46.	J			
0 0	1 (2001)				Ma	terial Use											
Quarry R	lock (2001)																



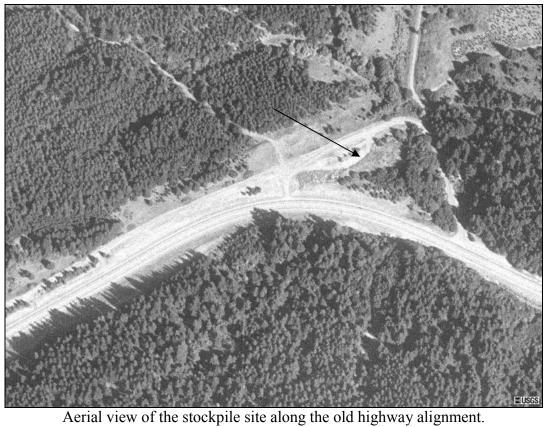
View to the northwest of the area along Highway 34.

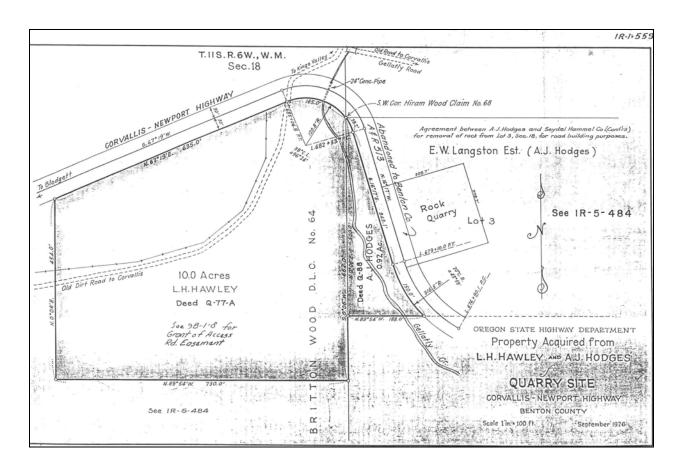




Aerial view of the quarry site adjacent to Highway 34.

County			Sit	e Name				Dist	Hv	vy	Mile Pt	TWP	RGE	Sect
Benton		Gellately (uarry/Lem	on Quarry/E	Blodgett	Quarry		04	00	33	2.8	11S	06.0W	18
	File I	D		Source #	Da	te Visit	ed			Maj) #		Type of	f Site
	2155	2		02-027-2	2 1	1/26/199	9		1R	-5-484,	1R-1-559		Stock Pi	le Site
Latitud	le	Lon	gitude	Elev. (m	1) /	Acreage	;	Pit	Size]	DOGAMI	Permit #	
44 36'41.19	9000"	123 28'	11.73000"	245		10]	NA					
					C	ommen	ts							
Lat. and Long.	acquired	d using Terr	ain Navigat	tor Software										
Rock Ty	pe	Unit		Color			V	Veatheri	ng			Joi	nting	
NA		NA		NA				NA				1	NΑ	
	Quality Hardness									Rese	erve (cy)	R	eserve (Toi	ns)
		NA			N	ΙA		0						
Potential Significant				Why			O	pen/Clo	sed			Directio	n	
No		No rock va	lue.					Closed		NA				
					Adjac	ent Lan	d Use							
Forest														
					F	Remark	S							
The new align is for a stock p	ile site, o	or staging ar	ea for futur	e projects. T	his prop	erty is r								ie here
0	203B	211		Fine	206 Co		20	08 F	20	08 F Ht.		208 C	208 C	Ht.
	Material Use													

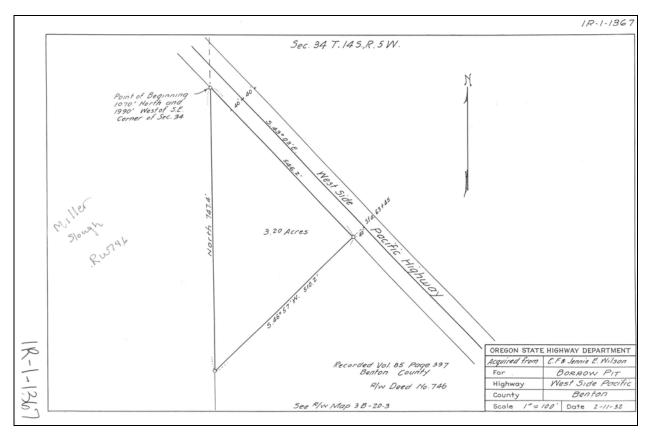




County			S	ite Name				Dist	Hwy	Mile Pt	TWP	RGE	Sect			
Benton			Wil	son Borrow				04	0091	0	14S	05.0W	34			
	File I	D		Source #	£	Date Visit	ted		N	Iap#		Type of	f Site			
	3466	1		02-900-	-2	1/26/19	99		1R-	1-1367		Grav	/el			
Latitude		Lo	ngitude	Elev. (m)	Acreag	e	Pit	t Size		DOGAMI	Permit #				
44 18'19.840	00"	123 16	'39.34000"	90		3.2]	NA							
						Commen	ts									
Lat. and Long. a	cquirec	l using Ter	rain Navig	ator Softwa	re					•	•	•	·			
VI.											Joi	nting				
Volcanic Grav	vel	NA		NA				NA			NA					
		Quality			H	Hardness	l	bs./cu ft.	R	eserve (cy)	R	eserve (Toi	ns)			
		Depleted				NA		120								
Potentially Significant Si	te	Why		Open/Clo	sed				1	Direction						
No		Depleted		Closed		The Lo	ng To	m River	is to the so	uthwest abo	ut 200 met	ers.				
					Ad	ljacent Lai	ıd Use	!								
Farming																
						Remark										
This is a deplete	d grave	l site soutl	of Monro	on Highwa	ay 99. '	This proper	ty is n	ow a wet	land site.	•	•	•				
202B 20	3B	211	20	6 Fine	206	Coarse	20	08 F	208 F	Ht.	208 C	208 C	Ht.			
						Material 1	Use									



View of the pit looking south along Highway 99.





Aerial view of the site in relation to Highway 99.

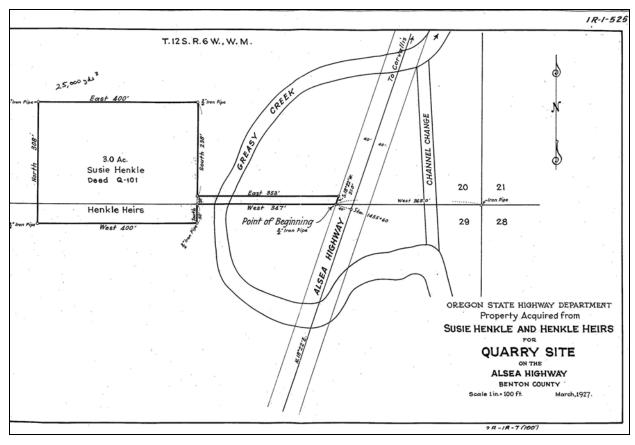
County			Si	te Name			Dist	Hwv	Mile Pt	TWP	RGE	Sect				
Benton			Henkle	e Quarry Site			04	0027	0	12S	06.0W	20				
	File II)		Source #	Date Vis	ited		Ma	ıp #	Jointing Unknown Unkno						
	Q0101			02-901-2	4/20/19	199		1R-	1-525		Quai	rry				
Latitud	e	Le	ongitude	Elev. (m)	Acreas	e	Pit	Size	I	OGAMI	Permit #					
44 30'20.79	372"	123 2	26'18.3429"	112.758	3			<1								
					Comme	nts										
GPS acquired i	n the pit.															
Rock Typ																
Basalt		Tsr	Medium	Dark Grey (N	4)	Slig	ht to Mo	Č								
		Quality	7		Hardness	l)	bs./cu ft.	Re								
		Fair			R2 to R3-		161		55,000							
Potentially Significant S		Wh	ny	Open/Closed				Dir	ection							
No	5	Small ac	reage.	Closed	To the ea	st abou	t 250 me	ters across I	lighway 34	is a small	creek.					
					Adjacent La	nd Use										
Residential																
					Remar	ks										
basalt. This is a	small sit the surfa urposes a ty owner	te in an a ace is we and should s are using	rea of homes athered and to d be retained ing the site for	on acreage. There could be for future use. It storage of ma	he ground has up to 10 feet The easement enterials, trailer	s good to of overb thas be s, vehice	o fair scr ourden he een cross	eening and a ere. This site fenced and	a fair amour is importar there is no a	nt of room nt to the D access to t	to work. To sistrict for this property	he y. The				
202B 2	03B	211	200	Fine 2	206 Coarse	20	08 F	208 F H	t. 2	08 C	208 C	Ht.				
					Material	**										





View to the north looking at the pit and the local terrain.

Close-up view of the basalt on the surface.





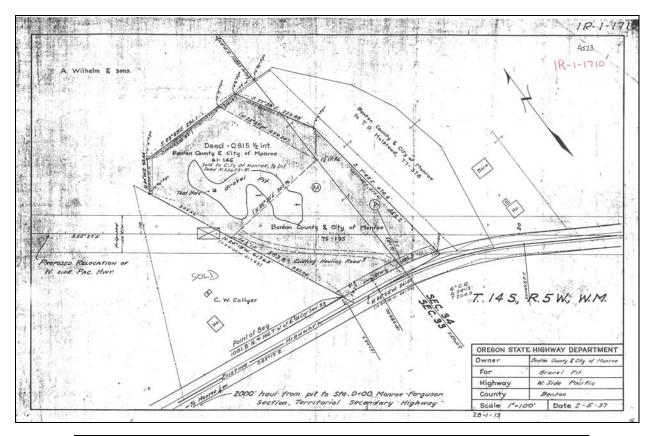
Aerial view of the site along Highway 34.

County			Sit	te Name				Dist	Hwy	N	Aile Pt	TWP	RGE	Sect
Benton			Monro	e Pit Quarry				04	0001		0	14S	05.0W	33
	File ID)		Source #	Dat	e Visited				Map #	#		Type o	f Site
	04523			02-902-2	4/	20/1999			1	R-1-17	10		Grav	/el
Latitude	:	Lon	gitude	Elev. (m)	A	creage		Pit	Size		Ι	OGAMI	Permit #	
44 18'44.680	000"	123 17'	25.43000"	90		12.52		1	NΑ					
					Co	mments								
Lat. and Long. a	cquired	using Terra	ain Naviga	tor Software										
Rock Type	e	Unit		Color			W	eatheri	ng			Joi	nting	
Alluvium NA NA NA NA									NΑ					
		Quality			Hard	ness	lbs	s./cu ft.		Reser	ve (cy)	R	eserve (To	ns)
		Depleted			N/	١		120						
Potentially Significant Si				Why			Op	en/Clos	sed			Directio	n	
No	I	t appears t	he site mig	ht depleted				Closed	F	Adjacer	it to the l	Long Tom	River.	
					Adjace	nt Land	Use							
Commercial/Res	sidential													
					Re	emarks								
This site is just s transfer station r													appears to	be the
	3B	211			206 Coa		208 F 208 F Ht. 208 C 208 C F					Ht.		
					Mat	erial Use	e							_
<u> </u>														



View looking northwest at the access point into the transfer station south of Monroe, OR.

The site is the brushy area on the other side of the road.





Aerial view of the site and surrounding area along Highway 99.

County			S	ite Name				Dist	Hwy	I	Mile Pt	TWP	RGE	Sect	
Lincoln			Iron M	ountain Quarry				04	0009		136.8	10S	11.0W	20	
	File II)		Source #	Da	te Visited				Map:	#		Type of	f Site	
	10176			21-004-2	3	3/30/1999			1	R-2-12	274		Quai	ту	
Latitude		L	ongitude	Elev. (m)	A	Acreage		Pit	Size		Ι	OGAMI	Permit #		
44 41'33.8484	18"	124 (03'08.83627"	141.959		49.35			<4			21-0	006		
					C	omments									
GPS acquired in	the pit.														
Rock Type		Unit		Color			V	Veatheri	ng		Jointing				
Basalt		Tim	Mediun	n Dark Grey (N	4)			Fresh			Mod	lerate to F	lighly Fract	ured	
		Qualit	y		Haro	dness	lk	s./cu ft.		Reser	ve (cy)	R	eserve (To	1s)	
		Good			R	4		177		5,00	00,000		11,947,50)	
Potentially Significant Site				Why				Open/	Closed			Direct	ion		
Yes	G	ood rocl	k, large groui	nd, room to wo	rk, goo	d screening	<u>.</u>	Clo	osed	Pac	ific Ocea	n to the v	vest 3/4 of a	mile.	
		·			Adjac	ent Land l	Jse	•			•	•			
Forest/Industrial/	Reside	ntial on	southwest sid	de of property.											
					R	Remarks									
This site is locate			1	0 ,								_			

into a dice rock of about 15 centimeters. The fine texture of the basalt can produce sharp elongated pieces and would take a special type of a crusher for production. You could rip some of the material but most likely you would need to drill and blast. There are minor amounts of rip rap available here and should be saved for future work projects. The screening is excellent with plenty of room to work. Access to the site is through a residential and industrial area that is just starting to be developed. This property is used as a waste site now with most of the refuse put up in the pit. This could pose problems when we want to remove rock in the future. We need a good location at this quarry for a place to put all of the waste material that maintenance acquires. There is some timber on the property. The access to this site is through a residential/industrial area.

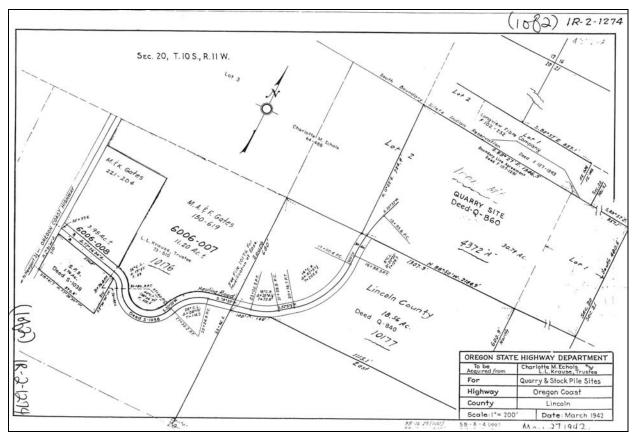
202B	203B	211	206 Fine	206 Coarse	208 F	208 F Ht.	208 C	208 C Ht.
2.52	1.31	16.5	15.8	7.3	14.8	0.9	16.0	3.5
				Material	Use			
Quarry Re	ock (1998)							

NW SE



180 degree view of the pit on Iron Mountain.

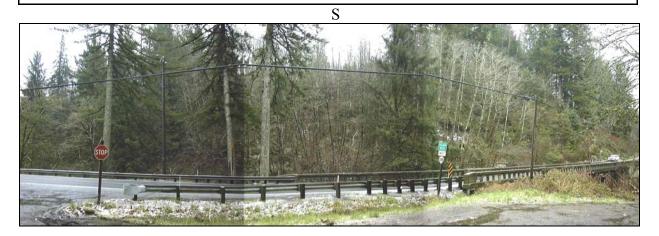
Close-up view of some rip rap in the pit. Notice the jointing pattern.





Aerial view of the site, taken in 1994.

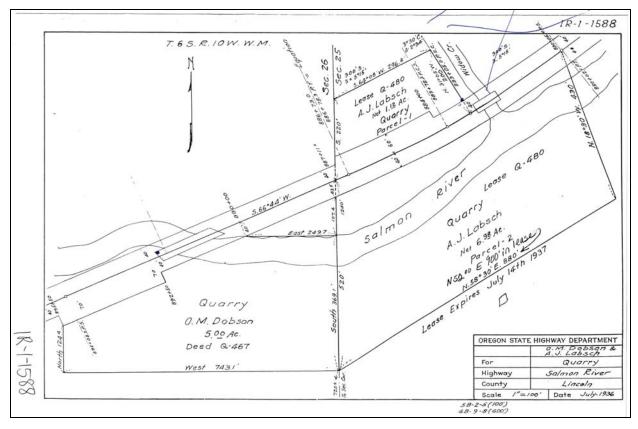
Commen		C:	te Name				D:-4	TT		121. D4	TWD	DCE	C4	
County			Dist	Hwy		Iile Pt	TWP	RGE	Sect					
Lincoln	ID	Dop	son Quarry		D / T/* *		04	0039		6.3	06S	10.0W	26	
File			Source #		Date Visit				Map #			Type of		
03286,	03234		21-009-	-2	3/04/199	99		1	R-1-15	88		Raw Land		
Latitude		ngitude	Elev. (1		Acreage	e		t Size	OGAMI	MI Permit #				
45 01'08.01435" 123 52'03.33306" 72.698 5 NA														
Comments														
GPS acquired at the site.														
Rock Type Unit Color Weathering Jointing														
Basalt Tsr Medium Dark Grey (N4) Fresh Moderate to Highly Fra											lighly Fract	ured		
Quality Hardness lbs./cu ft. Reserve (cy) Reserve (1											eserve (Toi	ns)		
	Good to Fa	ir			R4		120		120	0,000		194,400		
Potentially Significant Site			Why			O	pen/Clo				Direction	-		
Maybe	Good rock	, possible r	oom to wor	k.			Closed		almon	River is	adjacent t	to the north		
				A	djacent Lar	ıd Use								
Private quarry to the e	ast/Resident	ial homes a	djacent											
					Remark	S								
This site is located adjacent to and south of Highway 18. The description of the rock is from the adjacent private quarry. The rock is a fine-grain vesicular basalt with amygdules (<10%) of zeolites. This pillow basalt can produce a lot of fines during the crushing process and could lower the lab results for the ACC specifications. The terrain is gradually steep and all overgrown with vegetation. There can be up to 5 feet of overburden here and no room to work at this site. There is no screening from Highway 18 either and the property is surrounded by rural residential homes. We leased the adjacent property to the east at one time. It is now a private quarry and is just about depleted. This private quarry would make a good site to access our quarry in the future. Maybe able to work with the owner of the adjacent quarry to open our quarry from the east boundary of our property. Rose Lodge Maintenance site is a half of a mile east from this site.														
202B 203B	211	200	6 Fine	200	6 Coarse		08 F	200	F Ht.	20	08 C	208 C	111,	
					Material l	Use								





View to the south looking across Highway 18 at the site. The bridge to the right crosses over the Salmon River.

Close-up view of the jointing pattern in the adjacent quarry.





Aerial view of the site (arrow), and the adjacent quarry to the east.

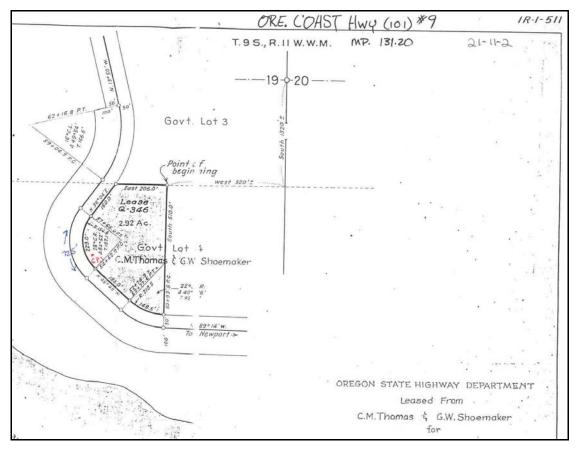
County			S	ite Name				Dist	Hwv	Mi	ile Pt	TWP	RGE	Sect	
Lincoln			~	Crest Quarry	7			04	0009		30.6	09S	11.0W	19	
	File I	D		Source #		ate Visite	ed		N	Iap#			Type of	f Site	
	Q034	-6		21-011-2	2	4/26/200	00	1R-1-511					Quai	Quarry	
Latitud	9	L	ongitude	Elev. (n	1)	Acreage Pit Size					D	OGAMI	Permit #		
44 46'13.85:	44 46'13.85502" 124 04'20.42011" 62.135 2.92 <2														
Comments															
GPS acquired in	n the pit														
Rock Type Unit Color Weathering Jointing															
Basalt		Tc		n Dark Grey (to Decon				ve to Moo	derately Fra	ctured	
		Qualit				dness	ll	bs./cu ft.	R	eserve	· · · /	R	eserve (To		
		Good to F	oor		R3 t	to R1		155		25,0	000		52,313		
Potentially Significant S		Wh	ny (Open/Closed					Di	rection	n				
No		Too sma	ıll	Closed	То	the west	about	250 met	ers and do	wn 200	0 feet is	the Paci	fic Ocean.		
					Adjac	ent Lan	d Use								
Residential abo	ut 200 n	neters to	the north/For	est.											
						Remarks									
This site is situa														he site	
composed of a purposes. Most														ttle	
room to work in gate or fence to	the pit.	The terr	ain is modera There have b	ately steep, ar been some lar	round 10 rge lands	to 25 de slides wit	egrees. thin th	The pit is area.	is used for	waste	materia	al at this t	ime. There	is no	
202B 20)3B	211	1 20	6 Fine	206 Co	oarse	20	08 F	208 F	Ht.	20	08 C	208 C	Ht.	
	•				•					_					
					Ma	aterial U	Jse								





Looking east at the quarry site along the old highway alignment.

Close-up view of some of the rip rap at the site.



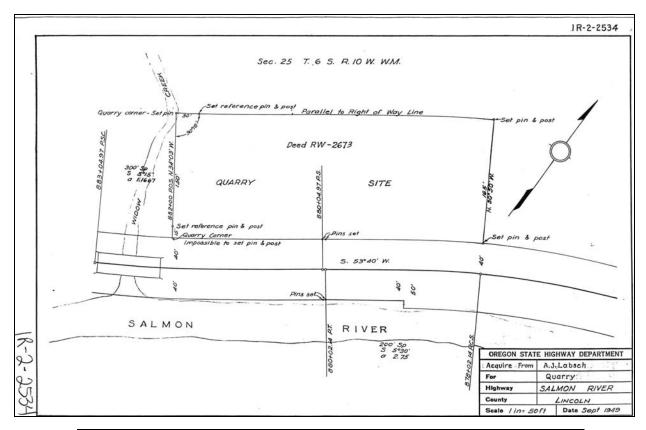


Aerial view of the site along the old highway.

County	Sit	Dist	Hwy	v I	Mile Pt	TWP	RGE	Sect					
Lincoln			Widow	Creek Quarry			04	0039)	6.4	06S	10.0W	25
	File II)		Source #	Date V	Visited			Map :	#		Type o	f Site
	02241			21-015-2	3/04	/1999		1	1R-2-25	34		Grav	/el
Latitude	,	L	ongitude	Elev. (m)	Acr	eage	Pi	t Size		Ι	OGAMI	Permit #	
45 01'13.990	45 01'13.99000" 123 51'47.95000" 111							<5					
					Com	ments							
Lat. and Long. a	acquired	using Te	errain Naviga	tor Software									
Rock Type	e	Unit		Color			Weatheri	ing			Joi	nting	
Volcanic Gra	vel	NA		NA			NA				1	NΑ	
		Quality	7		Hardne	SS	lbs./cu ft. Reserv			rve (cy) Reserve			ns)
		NA			NA		120						
Potentially Significant Si				Why		(Open/Clo	pen/Closed Direction					
No]	Depleted	gravel				Closed	Closed Adjacent to Widow Creek					
					Adjacent	Land Us	e						
Rural residentia	1												
					Rem	arks							
This site is adjac	cent to a	nd north	of Highway	18 about one l	nalf of a mi	le east of	the Rose	Lodge N	Mainten	ance Ya	rd. It is ad	jacent to W	idow
Creek. All of the	e gravel	is deplet	ed and the pr	operty is used	as a waste	site now.	Possible	stock pi	le site o	r a waste	e site for n	naintenance	ð.
202B 20	3B	211	206	Fine	206 Coars	e 2	208 F	208	F Ht.	2	08 C	208 C	Ht.
					Mater	ial Use							
				•		•		•	•	•		•	



Looking northeast at the depleted gravel site along Widow Creek. The creek is to the left out of view. Highway 18 is along the right side of the image.



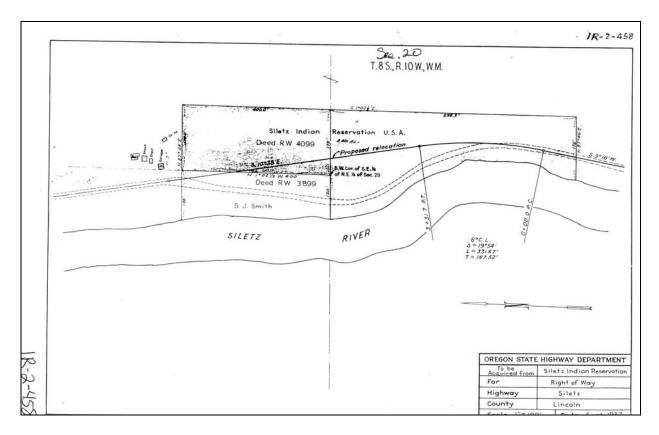


Aerial view of the gravel site (arrow) along Highway 18.

Count	ty		Site	Name			Dist	Hwy	N	Iile Pt	TWP	RGE	Sect
Lincol	n						04	0181		0	08S	10.0W	20
	File l	ID		Source #	Date Vis	ited			Map #	<u>!</u>		Type of	f Site
	0504	10		21-901-1	3/30/19	99		1	R-2-45	8		Quar	ry
La	titude	Longit	ude	Elev. (m)	Acreag	ge	Pit	Pit Size DOGAMI Permit					
44 51'	48.71000"	123 56'00.0	08000"	61	4.4		1	NA					
Comments													
Lat. and I	ong. acquire	d using Terrain	Navigato	or Software									
Rocl	к Туре	Unit		Color		,	Weatheri	ng			Joi	nting	
Inti	usive	Ti in Ti	t	NA			NA				1	NΑ	
		Quality			Hardness	l	bs./cu ft.		Reserv	e (cy)	R	eserve (Toi	ıs)
		NA			NA		155		20	,000		41,850	
	ntially cant Site	Why						()pen/C	Closed		Direction	
N	lo	From the Righ	t of Way	map it appea	ars to be too n	arrow 1	to develop	o.	Clos	ed	Near the	e Siletz Riv	er.
					Adjacent La	nd Use	e						
Forest/Re	sidential												
					Remar	ks							
old quarry	site. The hig	nt to the Siletz I ghway has a new that had some p	v alignm	ent through h	nere, and the n	nap has	no refere	ence poin	ts to us	se as con	ntrol. I did	locate a go	od
		e minimal quant									nap the pr	operty is io	ng ana
202B	203B	211	206		206 Coarse		08 F	208 1			08 C	208 C	Ht.
					Material	Use						L	



View to the southeast of the small disturbance along Highway 229.



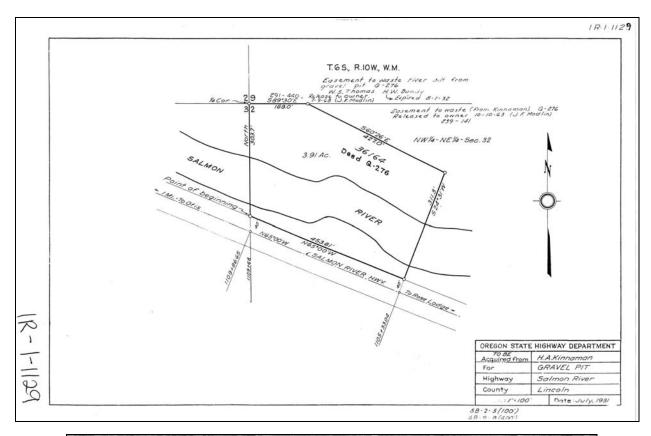


Aerial view of the property.

County			Sit	e Name				Dist	Hw	y	Mile Pt	TWP	RGE	Sect	
Lincoln			Kinner	man Quarry				04	003	9	2	06S	10.0W	32	
	File I	D		Source #	Dat	te Visite	d			Map	#		Type of	f Site	
	Q027	6		21-903-2	2 3	/04/1999)			1R-1-			Gravel		
Latitude		Long	itude	Elev. (m	1) A	creage		Pit Size DOGAMI P					Permit #		
45 00'57.430	5 00'57.43000" 123 56'13.46000" 61							1	NA						
Comments															
Lat. and Long. acquired using Terrain Navigator Software															
Rock Type Unit Color Weathering Jointing															
Volcanic Gra	vel	NA		NA				NA				1	NΑ		
		Quality			Hard	ness	lk	os./cu ft.	s./cu ft. Reserve (c			(cy) Reserve (Tons)			
		NA			N.	A		120	120						
Potentially Significant Si				Why			O	pen/Clos	sed			Directio	n		
No		Depleted gra	ivel					Closed		Salmo	n River bi	sects the p	property.		
					Adjace	nt Land	l Use								
Mobile home pa	rk to th	e east and no	orth of the	ground.											
					R	emarks									
This property is	located	on the Salm	on River s	outheast of	Ottis. The	Oregor	1 Depa	artment o	of Fish	and W	ildlife has	a fish hat	chery adjac	ent to	
This property is located on the Salmon River southeast of Ottis. The Oregon Department of Fish and Wildlife has a fish hatchery adjacent to our ground. There is a trailer park adjacent to the north. The site is depleted of all rock. The property would make a good wetland site, or salmon recovery site. Maybe an access point for fishing. The ground is over grown in vegetation, it is a small piece of ground, and it is depleted of rock.															
202B 20	202B 203B 211 206 Fine 206 Coarse 208 F 208 F Ht. 208 C 208 C Ht.												Ht.		
					Ma	terial U	se								
				·							•	•	·		



Looking north across the Salmon River at the gravel site.





Aerial view of the gravel bar along the Salmon River.

202B

Quarry Rock (2001)

203B

211

206 Fine 13.0

County	v									Hw	y]	Mile Pt	TWP	RGE	Sect
Linn			Saddle	Butte	Quarry				04	000	1	221	13S	03.0W	09
]	File ID			So	urce #	Da	te Visited			I	Map#			Type of	f Site
03812, 09876,	22158, 2	27506,	27640	22-	003-2	1/	/25/1999	1R-	5-561,1R	-5-132	7, 1R-1	-1627, 1R	-5-1326	Quar	ry
Latitude		I	ongitude		Elev. (r	n)	Acreag	e	Pi	t Size		I	OGAMI	Permit #	
44 27'16.2940	03"	123	03'22.370	73"	109.50	8	132.18	}		<5			22-0	001	
Comments															
GPS acquired in the pit. Rock Type Unit Color Weathering Jointing															
Rock Type	Weatheri					nting									
Basalt		Tub	Med	ium D	ark Grey	(N4)	1	F	resh to Sl	ight		Mod	lerate to H	lighly Fract	ured
		Qualit	J.				Hardness		lbs./cu ft.			rve (cy)	Re	eserve (To	
	Fa	air to G	ood				R4	<u>L , </u>	170		3,5	500,000		8,032,500)
Potentially Significant Site				WI	hy			•	Open/Clo	sed	Direction				
Yes		e acreagous rock	ge, close to	o I-5, a	and large	volui	me of		Closed		Sodom Creek and irrigation ditch bised the southwest corner of the property.				ects
						A	djacent La	nd Us	e						
Farming/Gun Cl	ıb														
							Remarl	ks							
This site is located east of I-5 about 200 meters. The basalt at this location is composed of a heterogeneous mix of igneous flows that produce some soft rock. The lithology is variable, depending on which lava flow you analyze. Some of the basalt at this location is a fine-grain good quality rock. Then you get other flows that are brecciated and very vesicular. This type of a site is difficult to work with in picking and choosing the good rock within poor rock. The terrain is moderately steep and past work has over steepened the south facing bench. If we wish to remove rock in the future you would need to develop a site plan for removal from the top down. The south facing bench is too tall (approximately 70 feet) and should be cut to a height of about 30 feet. You would need to drill and blast at this site. There is no screening from Interstate 5 unless you work on the eastside of the Butte. There is ample room to work. This site has a locked gate, and is used predominately for a waste site now. The northern 26 or so acres is leased to the Albany Gun Club and should pose no problems. The southern 40 or so acres are wetland and could be used for mitigation. The latitude and longitude for the access point is 44 27 24.94306, 123													bench no is The		

N E

Material Use

206 Coarse 9.0



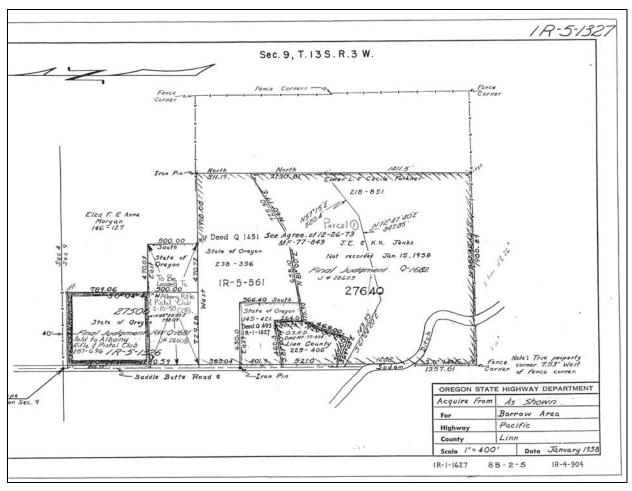
Looking northeast at Saddle Butte, the pit is just beyond the tree line.

208 C 11.1

208 F Ht.

208 C Ht. 50.0

Close-up view of the fracture pattern in the pit.





Aerial view of Saddle Butte, which is adjacent to Interstate 5, arrow points to the pit location.

Count	•			te Name	Dist	Hwy	, -	Mile Pt	TWP	RGE	Sect			
Linn			Bond	Butte Quarry			04	0001		211.8	14S	03.0W	28	
	File l	D		Source #	Date	e Visited			Map:	#		Type of	f Site	
	2357	9		22-023-2	1/	25/1999			1R-5-7	29		Quarry		
La	titude	L	ongitude	Elev. (m)	A	creage	Pi	Pit Size DOGAMI Permi						
44 19'	'11.1174"	123 (03'23.22313"	102.246		12		<1			22-0	082		
GPS acqu	ired in the pit													
Rock Type Unit Color Weathering Jointing														
Ва	asalt	Tib	Medium	Dark Grey (N	J4)		Fresh			Massi	ve to Moo	lerately Fra	ctured	
		Quality	y		Hardı	ness	lbs./cu ft.		Reser	ve (cy)	R	eserve (To	ns)	
		Good			R4		179		24	0,000		579,960		
	ntially cant Site			Why			Open/Clo	sed	Direction					
N	lo	does not		quality rock by llamette Valle Goal 5			Closed		NA					
					Adjacei	nt Land Us	se							
Farming														
					Re	emarks								
This site i	s located east	of I-5 ab	out 200 mete	rs. The rock a	t this site	is compose	ed of a me	dium-gr	rain colu	ımnar ba	salt. Ther	e is no scre	ening	
from I-5 v good qual the east. T	This site is located east of I-5 about 200 meters. The rock at this site is composed of a medium-grain columnar basalt. There is no screening from I-5 with plenty of room to work. There is minor weathering at the periphery of the pit. Columnar jointing at this site would produce a good quality rip rap. You would need to drill and blast the rock at this location. This site is long and narrow. We sold the adjacent quarry to the east. This is a great site for strong blocky basalt. The latitude/longitude for the access point is 44 19 24.02539, 123 03 16.32251. There is now a locked gate at this site.													
202B	203B	211	200	6 Fine	206 Coa	rse	208 F	208	F Ht.	2	08 C	208 C	Ht.	
2.68	3	17.7	7	8.8	3.2		17.9	1	1.2	1	6.2	0.7	7	
			,		Mat	erial Use								
AC Base	(1993)													

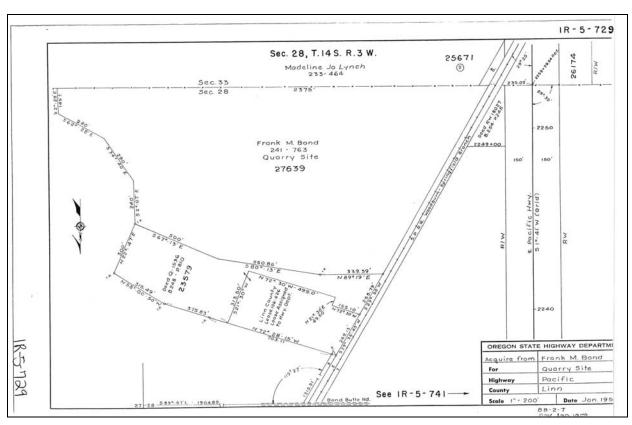
NW



Looking east at the pit area at Bond Butte.



Close-up view of the columnar jointing within the pit. Hammer for scale.





Aerial view of Bond Butte, arrow points to the pit on the west side.

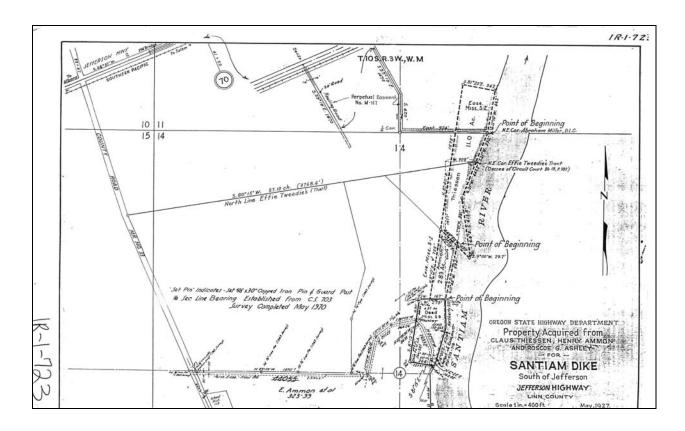
Count	v		S	ite Name			Dist	t Hy	wv	Mile Pt	TWP	RGE	Sect	
Linn			Asl	ley Quarry			04	02	11	0	10S	03.0W	14	
	Fil	le ID		Source #	Date	Visited			Map	#		Type of	Site	
	MS	S009		22-027-2	4/2)/1999			1R-1-7	723		Quar	ту	
Lat	titude	L	ongitude	Elev. (m)	Acı	eage]	Pit Size		Γ	OGAMI	Permit #		
44 41'5	8.15874"	123 (01'11.42395"	74.946	4	.87		<2						
					Com	ments								
GPS acqui	ired in the	pit.												
Rock	Туре	Unit		Color		1	Weath	ering			Joi	nting		
Ва	ısalt	Tc	Medium	Dark Grey (N	[4)		Fres	sh			Ma	ssive		
	Quality Hardness lbs./cu ft. Reserve (cy) Reserve (Tons) Good R4:151 151 50,000 101,925													
	Potentially													
Potentially Significant Site Why Open/Closed Direction														
No Small acreage, limited amount of rock. The site is surrounded by homes on acreage. Closed Adjacent to the Santiam River.														
					Adjacent	Land Use	,							
Residentia	ıl													
					Ren	narks								
area now.	The rock a	at this site is	a fine-grain	el Hill County basalt with a v	ery distinc	t platy hab	it. You	would i	need to d	rill and b	last at this	site. The h	aul	
to good sc	reening at	this site. Th	iere is also ar	 s. If we were t nple room to w 	ork. This	site is adja	cent to	the San	tiam Riv	er and the	pit floor	could be lo	wered	
		at our dispo e in this area		one home tha	t happens	to be on the	e edge	of the pi	it. Past in	formation	suggests	that this ro	ck is	
202B	203B	211	20	6 Fine	206 Coars	e 2	08 F	20	08 F Ht.	2	08 C	208 C	Ht.	
					Mate	ial Use								





View to the west of the pit floor and the bench cuts. Total height of the pit wall is approximately 35 feet.

Close-up view of the unique jointing pattern along the pit face. Hammer for scale.



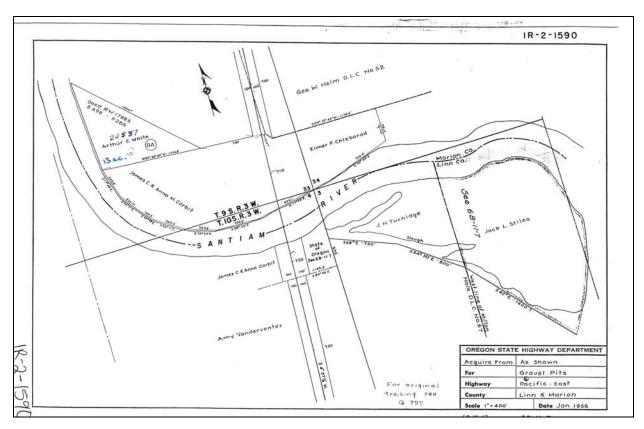


Aerial view of the quarry site along the Santiam River.

County			Sit	e Name				Dist	Hw	vy	Mile Pt	TWP	RGE	Sect
Linn			Santiam R	iver Gravel	Pit			04	000	01	241	10S	03.0W	03
	File I	D		Source #	Da	ate Visit	ed			Maj) #		Type of	Site
	24539, 24	4540		22-029-2	: -	4/20/199	9			1R-2-	1590		Grav	el
Latitu	ıde	Le	ongitude	Elev. (m) .	Acreage	•	Pit	t Size		Ι	OGAMI	Permit #	
44 44'03.5	59000"	123 0	2'33.73000"	61		67]	NA					
						ommen	ts							
Lat. and Long	g. acquired	using Te	errain Navigat	or Software										
Rock Ty		Unit		Color			1	Veatheri	ing			Joi	nting	
Volcanic C	Gravel	NA		NA				NA				1	NΑ	
	Quality Hardness lbs./cu ft. Reserve (cy) Reserve (Tons) NA NA 120 300,000 486,000													
Potentially														
Potentially Significant Site Why Open/Closed Direction														
No No access, in the river, land use issues. Closed In and adjacent to the Santiam River														
					Adjac	ent Lan	d Use	:						
Farming														
					I	Remark	s							
This site is lo	cated in th	e Santian	n River. It is s	outh of the 1	north bo	und I-5 1	rest ar	ea. The e	aseme	nt was	from I-5 a	nd is now	landlocked	. If we
ever want to o	develop thi	is propert	y for rock pro	duction we	will nee	d a new	way to	get to th	ne grou	und. Th	e property	is on the	inside radiu	s of
the river. In the	he winter t	ime the p	roperty becon	nes an island	d and acc	cess wou	ıld be	restricted	l. This	site ha	s no visibl	e disturba	nce and is o	ver
grown in vege												own the p	roperty in	
question and have leased out part of the ground for 10 years. This site would be good for wetland mitigation.														
202B	203B	211	206	Fine	206 Co	arse	2	08 F	20	8 F Ht.	2	08 C	208 C	Ht.
	Material Use													

E SW

Looking south across the Santiam River at the gravel site.





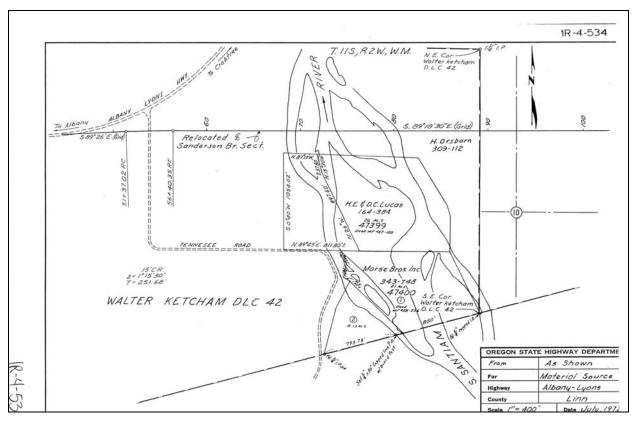
Aerial view of the gravel bar along the Santiam River.

County			Sit	te Name				Dist	Hw	y	Mile Pt	TWP	RGE	Sect
Linn			Sandersor	n Bridge Qua	arry			04	021	1	1.4	11S	02.0W	10
	File I	D		Source #]	Date Visit	ted			Map	#		Type of	f Site
	47399	9		22-034-2	2	4/20/19	99			1R-4-	534		Grav	el
Latitude	;	Lo	ongitude	Elev. (m	1)	Acreage	e	Pit	t Size		Ι	OGAMI	Permit #	
44 37'49.320	000"	122 5	5'23.71000"	82		21]	NA					
						Commen	ıts							
Lat. and Long. a	cquired	l using Te	rrain Naviga	tor Software	;									
Rock Type	e	Unit		Color			,	Weatheri	ing			Joi	nting	
Volcanic Gra	vel	NA		NA				NA				1	NΑ	
		Quality			Ha	ardness		lbs./cu ft.		Rese	rve (cy)	R	eserve (Toi	ns)
NA NA 120 50,000 81,000 Potentially														
Potentially Significant Si				Why			(Open/Clo	sed			Direction	n	
No	Significant Site Limited access to the site and part of the property													
					Adj	acent Lai	nd Use	e						
Farming														
						Remark	KS							
This is a site sou	ıth of Sa	anderson	Bridge on eit	her side of a	nd in t	the Samtia	ım Rv	er. The ac	cess to	the pro	perty wo	uld need t	o be develo	ped.
The ground is al	ll over g	rown and	could make	a good wetla	and mi	itigation si	ite. Ou	ir propert	y on the	e west s	side of the	river nee	ds to be eva	luated
for encroachmen	nt by the	e adjacent	property ow	ner. There is	s limite	ed room to	work	and no s	creenin	g. The	property s	should be	evaluated f	or a
boundary survey	/ .													
202B 20	3B	211	206	Fine	206 (Coarse	2	08 F	208	F Ht.	2	08 C	208 C	Ht.
2.	.84	17.44									1	14.5	0.3	ł
					I	Material 1	Use							
1973														

SE SW



View to the south of the Santiam River and the potential gravel bar located on either side of the river.





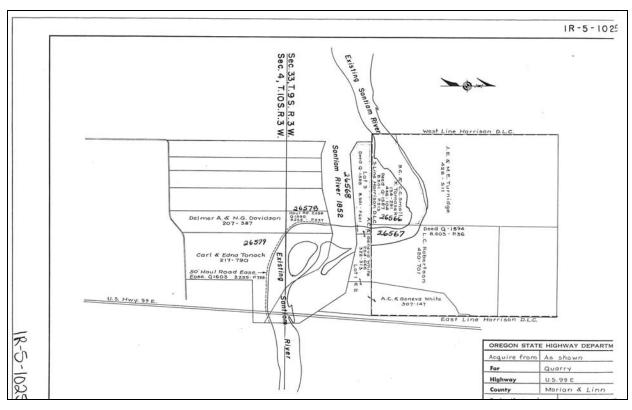
Aerial view of the site and surrounding area.
Sanderson Bridge and Highway 226 are in the upper portion of the image.

Count	у		Si	ite Name				Dist	Hwy	y I	Mile Pt	TWP	RGE	Sect
Linn			Santia	m River at I-:	5			04	0001	1	240.7	09S	03.0W	33
	File I	D		Source #	Da	te Visited	d			Map	#		Type of	f Site
265	566, 26568, 2	6567, 245	537	22-035-2	2 4	4/20/1999			1R-5-	1025, 11	R-2-1590)	Grav	/el
La	titude	Le	ongitude	Elev. (m	1)	Acreage		Pit	t Size		Ι	OGAMI	Permit #	
44 44'2	21.52918"	123 0	3'14.56952"	55.581		139.76]	NA					
					C	omments								
GPS acqui	ired at the acc	cess gate s	south of the s	southbound I-	5 rest ar	ea.								
Rock	к Туре	Unit		Color			V	Veatheri	ing			Joi	nting	
Volcan	ic Gravel	NA		NA				NA]	NA	
Quality Hardness lbs./cu ft. Reserve (cy) Reserve (Tons) Good NA 120 300,000 486,000														
Good NA 120 300,000 486,000 Potentially														
Potentially Significant Site Why Open/Closed Direction														
No Large acreage, room to work, close to I-5, but the quantity does not meet the Willamette Valley classification of aggregate sites for Goal 5. Adjacent to and in the Santiam River.														
				-	Adjac	ent Land	Use		•					
Farming														
					F	Remarks								
40% sand	s located wes /organics at tl ome hummod	nis locatio	n. The prope	erty is on the	inside of	the river	radiu	ıs. You c	ould sc	rap 3 to	6 feet of	material	from this si	ite.
	Counties. The													1011
	through the fi				on Coun	ty is adjac	ent t	o the sou	ıthboun	d I-5 re	st area. T	his is a la	rge amount	of
202B	<u> </u>													
	•				•									
					Ma	aterial Us	e							
	·		·	·		-								<u></u>

 \mathbf{W}



Looking northwest at the gravel bar along the Santiam River.



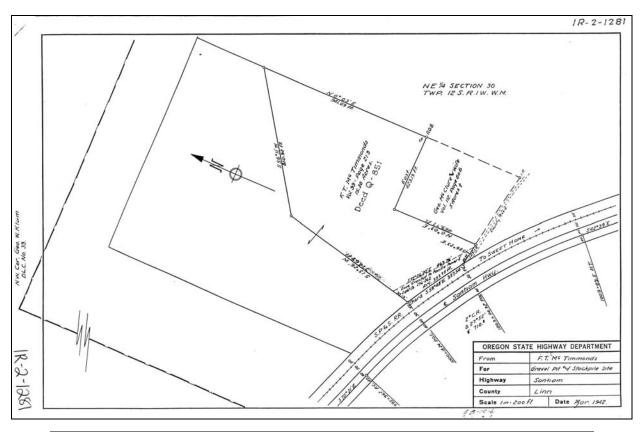


Aerial view of the gravel bars along the Santiam River. Interstate 5 and the rest areas are in the right center of the image.

County			Sit	te Name				Dist	Hwy		Mile Pt	TWP	RGE	Sect
Linn			McTimm	onds Gravel F	Pit			04	0016		17.6	12S	01.0W	30
	File II	D		Source #	Da	te Visited	l			Map	#		Type o	f Site
	10258	3		22-036-2	12	2/17/1999)		1	R-2-1	281		Stock Pi	le Site
Latitude	e	Lo	ongitude	Elev. (m)	A	creage		Pit	Size		I	OGAMI	Permit #	
44 29'58.22	449"	122 5	0'56.66303"	124.003		15.4		1	NA					
					Co	mments								
GPS acquired a	t gate.													
Rock Typ	e	Unit		Color			V	Veatheri	ng			Joi	nting	
Volcanic Gra	avel	NA		NA				NA				1	VΑ	
	Quality Hardness lbs./cu ft. Reserve (cy) Reserve (Tons)													
NA NA 0														
Potentially Significant S	Potentially Why Open/Closed Direction													
No	-	Waste roo	ck site now					Closed	V	ail Cı	reek is to	the north.		
	,				Adjace	ent Land	Use							
Residential														
					R	emarks								
This site is loca	ted south	neast of L	ebanon on th	ne north side o	f Highv	vay 20. Tl	he pi	roperty is	being u	sed as	a waste s	site/stock	pile site and	1
appears to be de	epleted o	f gravel.				•	•						-	
202B 20	03B	211	206	Fine	206 Coa	arse	20	08 F	208	F Ht.	2	08 C	208 C	Ht.
2.62	3	21.0	2	2.9	1.2		1	6.4	0.	.3	2	21.9	0.5	5
					Ma	terial Us	e							
AC Base (1991))													



Looking north at the Maintenance stockpile site.





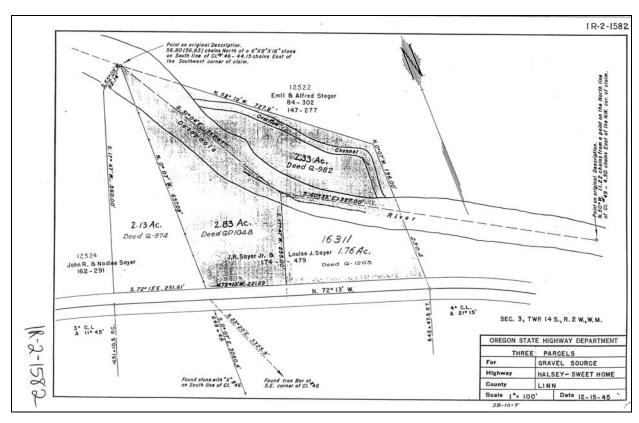
Aerial view of the stockpile site along Highway 20.

File ID Source # Date Visited Map # Type of Si 12524 22-037-2 1/22/1999 1R-2-1582 Gravel Latitude Longitude Elev. (m) Acreage Pit Size DOGAMI Permit # 44 22'37.12876" 122 55'24.39977" 117.653 9.05 NA Comments GPS acquired at the access point to the site. Rock Type Unit Color Weathering Jointing Volcanic Gravel NA NA NA NA NA Quality Hardness Ibs./cu ft. Reserve (cy) Reserve (Tons) Good NA 120 65,000 105,300 Potentially Significant Site Why Open/Closed Calapooia River is adjacent to the north. Adjacent Land Use Farming Remarks	County			Sit	te Name				Dist	Hw	vy	Mile Pt	TWP	RGE	Sect
12524 22-037-2 1/22/1999 1R-2-1582 Gravel	Linn			Sa	ayer Pit				04	021	12	0	14S	02.0W	03
Latitude Longitude Elev. (m) Acreage Pit Size DOGAMI Permit #		File II	D		Source #	D	ate Visi	ted			Maj) #		Type of	f Site
44 22'37.12876" 122 55'24.39977" 117.653 9.05 NA Comments GPS acquired at the access point to the site. Rock Type Unit Color Weathering Jointing Volcanic Gravel NA NA NA NA Quality Hardness Ibs./cu ft. Reserve (cy) Reserve (Tons) Good NA 120 65,000 105,300 Potentially Significant Site Why Open/Closed Direction No Limited amount of rock. Site used as a waste/bone yard now. Adjacent Land Use Farming Remarks		12524	4		22-037-2	2	1/22/19	99			1R-2-	1582		Grav	el
GPS acquired at the access point to the site. Rock Type Unit Color Weathering Jointing Volcanic Gravel NA NA NA NA Quality Hardness Ibs./cu ft. Reserve (cy) Reserve (Tons) Good NA 120 65,000 105,300 Potentially Significant Site Why Open/Closed Direction No Limited amount of rock. Site used as a waste/bone yard now. Adjacent Land Use Farming Remarks	Latitude		Lon	gitude	Elev. (n	n)	Acreage	e	Pit	t Size		I	OGAMI	Permit #	
GPS acquired at the access point to the site. Rock Type Unit Color Weathering Jointing Volcanic Gravel NA NA NA Quality Hardness Ibs./cu ft. Reserve (cy) Reserve (Tons) Good NA 120 65,000 105,300 Potentially Significant Site Why Open/Closed Direction No Limited amount of rock. Site used as a waste/bone yard now. Adjacent Land Use Farming Remarks	44 22'37.128	76"	122 55'2	24.39977"	117.653	3	9.05		1	NA					
Rock Type Unit Color Weathering Jointing						(Commen	ts							
Volcanic Gravel NA NA NA NA NA	GPS acquired at	the acc	ess point to	the site.											
Quality Hardness lbs./cu ft. Reserve (cy) Reserve (Tons) Good NA 120 65,000 105,300 Potentially Significant Site Why Open/Closed Direction No Limited amount of rock. Site used as a waste/bone yard now. Closed Calapooia River is adjacent to the north. Adjacent Land Use Farming Remarks	V 1				Color			1	Weatheri	ng			Joi	nting	
Good NA 120 65,000 105,300 Potentially Significant Site No Limited amount of rock. Site used as a waste/bone yard now. Adjacent Land Use Farming Remarks	Volcanic Gra	vel	NA		NA				NA				1	NΑ	
Potentially Significant Site Why Open/Closed Direction															
Significant Site No Limited amount of rock. Site used as a waste/bone yard now. Closed Calapooia River is adjacent to the north. Adjacent Land Use Farming Remarks	Potentially														
No yard now. Closed Calapooia River is adjacent to the north. Adjacent Land Use Farming Remarks	Significant Site Why Open/Closed Direction														
Farming Remarks	Limited amount of rock. Site used as a waste/bone Closed Calaponia River is adjacent to the north														
Remarks						Adja	cent Lai	ıd Use	;						
	Farming														
							Remark	s							
This site is about 4 miles east of Brownsville. The pit floor of the site is approximately 8 feet below Highway 228. There is no gravel exposed at the surface. The site has been used as a minor waste site. The property is all over grown with blackberries and I was not able to evaluate all of the ground. There is no screening from the highway. The property is not fenced nor is there a gate to restrict access. The sit has plenty of room to work. Possible wetland/salmon recovery site. This is the only site along this stretch of the highway.	exposed at the s evaluate all of the														
202B 203B 211 206 Fine 206 Coarse 208 F 208 F Ht. 208 C 208 C Ht														200 (TT4
202D 203D 211 200 Fine 200 Coarse 200 F 200 F Ht. 208 C 208 C Ht	202B 20	SB	211	206	rine	200 C	oarse	2	UO F	20	or Ht	. 2	00 C	208 C	пt.
Material Use						M	[atorial]	Teo							
Material Use						IVI	iateriai (USC							

F



Looking east at the gravel site along the Calapooia River.





Aerial view of the gravel site along Highway 228.

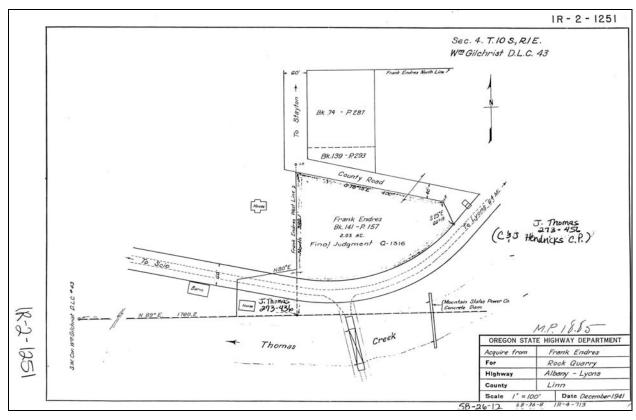
County	v		Si	te Name				Dist	Hwy	v	Mile Pt	TWP	RGE	Sect
Linn	,		End	re's Quarry				04	0211	1	18.9	10S	01.0E	04
	File 1	ID		Source #	Dat	e Visit	ed			Map	#	<u> </u>	Type of	f Site
	0998	36		22-038-2	1/	21/199	9			1R-2-1	1251		Quai	rry
Lat	titude	L	ongitude	Elev. (m)	A	creage		Pit	t Size		Γ	OGAMI	Permit #	
44 43'3	88.39141"	122 4	41'52.22234"	168.831		2.05		1	NA					
					Co	mment	S							
GPS acqui	ired at the no	ortheast co	orner of prope	rty.										
Rock	Туре	Unit		Color			V	Veatheri	ing			Joi	nting	
Ba	ısalt	Tu	Medium	Dark Grey (N	J4)		Fre	esh to Sl	ight		Mod	lerate to H	lighly Fract	ured
		Qualit			Hard		lk	os./cu ft.			rve (cy)	Re	eserve (To	ns)
Good to Fair R4 160 24,000 51,840														
Potentially Significant Site Why Open/Closed Direction														
N	o	Small ac	0 /	d room to wor	k, limited	d		Closed		Thoma	as Creek is	s east acro	ss Highway	y 226.
	_				Adjace	nt Lan	d Use							
Residentia	l				, i									
					Re	emarks	3							
production	This site is along Highway 226 adjacent to the west. The rock is a fine-grain highly fractured basalt. It is a very small site for rock production and might be better suited for a stock pile site. There is a minor amount of overburden. You would need to drill and blast the rock here. There is no screening from the highway with limited room to work. The terrain is almost flat. The site is in a rural residential area.													
202B	203B	211			206 Coa			08 F		F Ht.		08 C	208 C	
					Mat	erial U	se				•			
	•	·	•											





View to the northwest of the site along Highway 226.

Close-up view of the fracture pattern of the basalt along the highway.





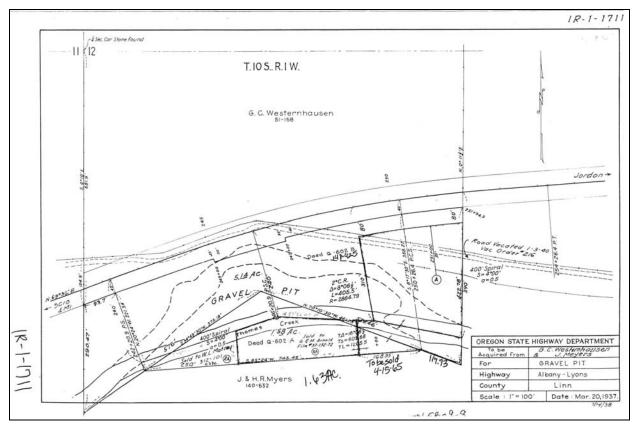
Aerial view of the site in relation to the surrounding property.

County			Sit	e Name			Dist	Hwy	7	Mile Pt	TWP	RGE	Sect	
Linn			M	yers Pit			04	0211	1	0	10S	01.0W	12	
	File I	D		Source #	Date V	sited			Map	#		Type of	f Site	
	04532, 0	3991		22-900-2	2 1/21/	1999			1R-1-1	711		Grav	el	
Latitu	de	Lo	ngitude	Elev. (m) Acre	age	Pi	t Size		I	OGAMI	Permit #		
44 42'50.4	2828"	122 45	5'41.96279"	126.95	3.6			NA						
					Comm	ents								
GPS acquired	at the eas	stside of pr	operty.											
Rock Ty	pe	Unit		Color		,	Weatheri	ing			Joi	nting		
Alluviu	m	NA		NA			NA				1	NΑ		
	Quality Hardness lbs./cu ft. Reserve (cy) Reserve (Tons) Poor NA 120													
Poor NA 120														
Potentially Significant Site Why Open/Closed Direction														
No		Small acre	eage, with no	rock.			Closed		Adjace	nt to Tho	mas Creel	ζ.		
					Adjacent I	and Us	е							
Residential/Fa	arming													
					Rema	rks								
This site is alo	ong Highv	way 226 ab	out 5 miles	east of Scio.	The property	is on the	e outside	of the st	ream r	adius alor	ng Thoma	s Creek. Th	e site	
is narrow and														
highway and r	no screen	ing. Ťhat n	neans there is	s no room to	work either.	We mig	ht at some	e time in	the fu	ture need	to put rip	rap along t	his	
site to protect	our high	way.												
202B	202B 203B 211 206 Fine 206 Coarse 208 F 208 F Ht. 208 C 208 C Ht.													
					<u> </u>									
					Materia	l Use								

NE SE



Looking east at the site along Thomas Creek.





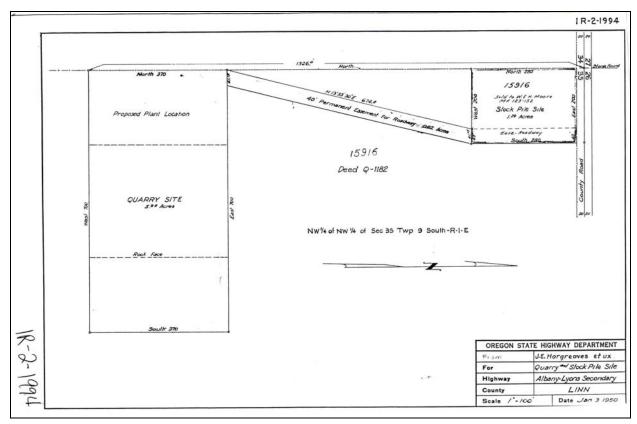
Aerial view of the site and surrounding property.

County			Sit	e Name				Dist	Hwy	N	Iile Pt	TWP	RGE	Sect
Linn			Hargre	aves Quarry				04	0211		0	09S	01.0E	35
	File ID			Source #	Da	te Visit	ed			Map #	<u> </u>		Type o	f Site
	15916			22-901-2	1	/21/199	99		11	R-2-19	94		Raw I	and
Latitude		Long	itude	Elev. (m)) A	Acreage	9	Pit	t Size		Γ	OGAMI	Permit #	
44 44'55.483	6"	122 39'3	2.86975"	355.316		6.57]	NA			22-0	152	
					C	ommen	ts							
GPS acquired at														
Rock Type		Unit		Color			V	Veatheri					nting	
Basalt		Tu		NA				Moderat					visible	
Quality Hardness lbs./cu ft. Reserve (cy) Reserve (Tons) Unknown R3 165 60,000 133,650														
Potentially														
Potentially Significant Sit	te				Why						Open/C	losed	Direct	ion
No Small acreage, limited room to work, sold stockpile site, rock is not proven. NA NA														
					Adjac	ent Lan	d Use							
Farming/Residen	ntial.													
						Remark	~							
This site is off of easement is still	in place	but has bee	en obstruct	ed by a wood	d privacy	fence.	If we	still wish	to use th	is site	we need	to secure	our access	. This
work and some s evident at this lo	creening	g from the l	nighway. (Ground water	r is bisec	ting ou	r prop	erty from	the sprii	igs abo	ve. Past	rock fall	landslides a	are
05.86809, Longit					, tillioci	raiue a	3	110. 1110	, ooi ama	C 3 101 1	.110 40000	55 point a	.c Lantade	1 7 7 7
202B 203	3B	211	206	Fine	206 Coa	arse	20	08 F	208 1	Ht.	2	08 C	208 C	Ht.
					•									•
					Ma	terial (Jse							

NE SE



Looking east at the site.





Aerial view of the surrounding ground. The site and access road are highlighted by arrows.