

Changed in case

OREGON BLACK SAND Exploration

Hole No. 175

Bowman Property

Sheet 101175

Sec. 32 T 275 R 14 W

County Coos

Hole No. 175 Location SW corner of Bowman (Lease?) prop. Drill used 1 1/2" Empire
 Driller Nichols Engr. in charge _____
 Mtrl. classified by Paulson Sampler _____
 Elev. of collar _____ (ground elev.) Date hole begun 1/18/41
 Thickness overburden 0 Date hole finished 2/16/41
 Thickness of ore lens 17 Shifts actually drilled 2
 Elev. bottom ore lens _____ Diam. casing 1 1/2" Diam. shoe 1 1/2"
 Depth of hole 17 Theoretical vol. per ft. this hole _____
 Elev. bottom of hole _____
 Elev. water table -3'
 Nature of bedrock Pent

Depth			Sample								Remarks	
From	To	Cased To	Core Rise	Vol. Wet	Wt. Dry	Cr2O3	TiO2	Fe	P	SiO2		
2	10	0-10		.068	23.0	0.164				98.0 135.7	1'	Grey sand
10	17	10-17		.049	13.2						2'	"
							.17					Bottom on Pent.
										135		
				10'		Av. Density				5.6		
										135.98		Final check

OK

these samples delivered Aug. 25, 1941

Changed in Color.

OREGON BLACK SAND Exploration

Hole No. 18N
Sheet 1 of 12N

Bowman Property

Sec. 32 T 27S R 14W
County Cook

Hole No. 18N Location NW cor. of Bowman Prop. Lagoons.
Elev. of collar _____ (ground elev.)
Thickness overburden _____
Thickness of ore lens 29.5
Elev. bottom ore lens _____
Depth of hole 29.5
Elev. bottom of hole _____
Elev. water table -5'
Nature of bedrock Peat

Drill used 1 1/2" Empire
Driller Nichols Co.
Engr. in charge Parkson
Mtrl. classified by _____
Sampler _____
Date hole begun _____
Date hole finished _____
Shifts actually drilled 2
Diam. casing 1 1/2" Diam. shoe 1 1/2"
Theoretical vol. per ft. this hole _____

Depth			Sample										Remarks
From	To	Cased To	Core Rise	Vol. Wet	Wt. Dry	Cr2O3	TiO2	Fe	P	SiO2	Sample		
0	19.2	20	29.2	.372	17.0	.64				96.8	1	Grey sand	
				.17									
19.2	25	26.3	5.15	.319	14.4	.11				94.2	2	"	
				.125									
25	29.5	30.0	/	.235	11.2	.6				94.3	3	"	
			To		19.2								
								Assay		.64		✓	
										96.8		(96)	
												Change D-H	

OK

Oregon Black Sand

Exploration

Hole No. 6

Bowman

Property

Sheet 1 of 1

Sec. 32 T 27S R 19W

County Coos

Hole No. 6 Location _____

Drill used EMPIRE

Driller Allen Co. _____

Engr. in charge Griggs

Elev. of collar _____ (ground elev.)

Mtrl. classified by Jutton

Thickness overburden _____

Sampler Jutton

Thickness of ore lens _____

Date hole begun 5-27-41

Elev. bottom ore lens _____

Date hole finished 5-27-41

Depth of hole _____

Shifts actually drilled 1

Elev. bottom of hole _____

Diam. casing _____ Diam. shoe _____

Elev. water table Depth 0.3

Nature of bedrock _____

Theoretical vol. per ft. this hole 0.0735 cu ft

Depth		Sample										Remarks	Sand
From	To	Cased To	Core Rise	Vol. Wet	Wt. Dry ^{kgm}	Cr ₂ O ₃	TiO ₂	Fe	P	SiO ₂			
0.0	1.6				88	15.5					149.4	First 1.0 black sand next 0.6 laminated	black + 1 gray
1.6	2.7											Mixture of black	
2.7	3.0											and gray sand	
3.0	3.1				11.6	7.0					117.1		2
3.1	4.1												
4.1	5.0												
5.0	5.7											Green black sand	
5.7	6.1											and some gravel	
6.1	7.0				18.4	2.5					105.5		3
7.0	7.9												
7.9	8.6												
8.6	9.8											Grey sand + peat	
9.8	11.4				9.0	2.6					105.2		4
11.4	12.0												

3-4 Misson

Drown Black Sand Exploration Hole No. 5
Bowman Property Sheet 1 of 1
 Sec. 32 T27S R14W
 County Coos

Hole No. 5 Location _____

 Elev. of collar _____ (ground elev.)
 Thickness overburden _____
 Thickness of ore lens _____
 Elev. bottom ore lens _____
 Depth of hole 11.3
 Elev. bottom of hole _____
 Elev. water table 0.5
 Nature of bedrock _____

Drill used Empire
 Driller Allen Co. _____
 Engr. in charge GRIFFS
 Mtrl. classified by Sutton
 Sampler Sutton
 Date hole begun 5-26-41
 Date hole finished 5-26-41
 Shifts actually drilled _____
 Diam. casing 4" Diam. shoe _____
 Theoretical vol. per ft. this hole .10735 cu. ft.

Depth		Sample										Remarks	Sample	
From	To	Cased To	Core Rise	Vol. Wet	Wt. ^{Kgms} Dry	Cr ₂ O ₃	TiO ₂	Fe	P	SiO ₂	D			
0.0	1.8												Gr. sand with 0.3	
1.8	3.3				7.9	3.2				101.5	105.5		of bottom corner	1
2.3	3.1													
3.1	3.9												Dark grey sand	
3.9	4.6				16.0	7.9				116.0			" "	
4.6	5.0												" "	2
5.0	6.1												" "	
6.1	6.7												" "	
6.7	7.4												Gr. & some sand with	
7.4	8.3												some gravel	
8.3	9.8				11.6	0.7				100				3
9.8	9.9													
9.9	9.8													
9.8	10.2												Mud & peat	
10.2	10.5				1.0									
10.5	10.7												A 1+D	4
10.7	11.3									5.7			Chert	
										107.0				
										105.8				

3, 4 not always barren?

Oregon Black Sand

Exploration

Hole No. 4

Bowman

Property

Sheet Left

Sec. 32 T 27S R 14W
County Cook

Hole No. 4 Location _____

Drill used Empire

Driller Allen Co. _____

Engr. in charge Griggs

Elev. of collar _____ (ground elev.)

Mtrl. classified by _____

Thickness overburden _____

Sampler Sutton

Thickness of ore lens _____

Date hole begun May 22, 1941

Elev. bottom ore lens _____

Date hole finished May 23, 1941

Depth of hole 27.1

Shifts actually drilled 1 1/2

Elev. bottom of hole _____

Diam. casing 4' Diam. shoe _____

Elev. water table 1.4

Nature of bedrock Peat

Theoretical vol. per ft. this hole .0735 cu. ft.

Depth			Sample										Remarks	Sample	
From	To	Cased To	Core Rise	Vol. Wet	Wt. Dry	Cr ₂ O ₃	TiO ₂	Fe	P	SiO ₂					
0.0	5.9										47.5	5.9	Grey sand	SiO ₂ 0.4	1
5.9	9.6										3.7		" "	0.3	2
9.6	15.2										5.6		" "	1.0	3
15.2	20.0										4.2		" "	1.0	4
20.0	24.9										5.9		" "	1.3	5
24.9	26.1										1.2		" "	1.2	6
26.1	27.1										1.0		" "	0.9	7
											27.1				
														Weighted assay = .8 %	

~~Conduct Barium~~

OK