



WATER-RIGHT DOCKET

Assateague Island National Seashore

Docket No: 4

COAST GUARD WELL

Supporting Hydro Data

00-00-0000: invoice for drilling and developing water well: blake inc.

BLAKE

A CO. INC. OF GREENSBUSH, VA.

WATER & SEWAGE
SYSTEMS



VA. 804 787-4075
MD. 301 957-0900

National Park Service
Assateague Island National Seashore
Rt. 2, Box 294
Berlin, Maryland 21811

RE: IFB-ASIS-9-2

Invoice for drilling and developing water well on Assateague Island National Seashore, Chincoteague, Virginia:

- (1) Drilling well hole large enough to receive 4-inch inside diameter PVC casing:

220 Lin. Ft. @ \$8.00	\$1,760.00
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 - (2) Furnishing and installing 4-inch diameter Sch. 40 PVC well casing:

176 Lin. Ft. @ \$10.00	\$1,760.00
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 - (3) Installing a 4-inch Pitless Adapter, (combined sanitary well seal and underground discharge unit) with 2-inch grout seal, concrete slab, 5 feet of 3-inch PVC, (Sch.80) pipe with its end plugged, and 5 feet of 2-inch PVC Sch. 40 conduit plugged:

	\$600.00
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 - (4) Ream well hole and place two 2-inch minimum grout seal around PVC casing:

46 Lin. Ft. @ \$10.00	\$460.00
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 - (5) Furnishing and installing (in two 10 ft. sections) 4-inch PVC well screen:

40 Lin. Ft. @ \$25.00	\$1,000.00
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 - (6) Ream well hole and place 2.5" gravel pack:

120 Lin. Ft. @ \$20.00	\$2,400.00
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 - (7) Developing well, by pumping and surging:

	\$120.00
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 - (8) Pump testing for yield of well:

8 Hours @ \$30.00	\$240.00
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 - (9) Furnishing an electric log of entire well hole: \$2,900.00
- TOTAL BILLING FOR ALL ITEMS LISTED ABOVE: \$11,240.00



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TEST DATA WELL #718794:

Blake
Neal
Merritt

50 ft. - 12.5 gpm
75 ft. - 14.5 gpm
100 ft. - 17.0 gpm
125 ft. - 21.0 gpm
150 ft. - 22.0 gpm
175 ft. - 25.5 gpm

Pump should be set at 175 ft. - 180 ft. to obtain most yield.

STATIC WATER LEVEL - *12" - 18" (see note)

DRAW DOWN - 104 ft. when pumping at 175 ft.

RECOVERY RATE - 104 ft. - *12" to 18" Static Level (see note)
4 minutes to - 4 minutes 15 seconds

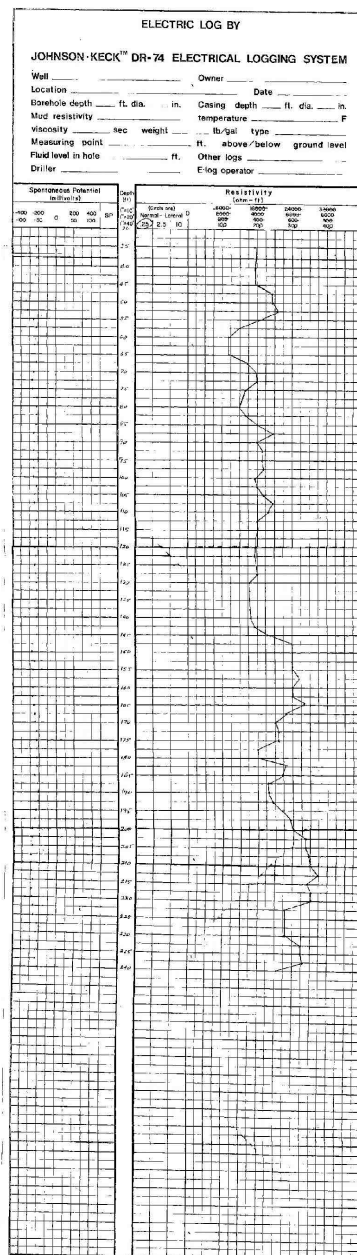
PUMP RATE - 50 ft. - 175 ft: 4.4 Hr.
175 ft. - 180 ft: 5.0 Hr.

Well free-flows when casing was cut for installation of pitless adaptor.

No change in salt content from any pumping levels.

*Recovery rate varies approximately 15 seconds due to tide status.

BLAKE & COMPANY, INC. OF GREENBUSH



1. Check Johnson-Keck system on one sample of oil solution with three 100% test cells. In
optimal test cell.
2. Turn the test cell and the test cell in the center of the well, each about 25% from the well.
3. Set the test cell in the center of the well, each about 25% from the well.
4. The test cell is in the center of the well, each about 25% from the well.
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SPONTANEOUS POTENTIAL

1. Set the test cell in the center of the well, each about 25% from the well.
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RESISTIVITY

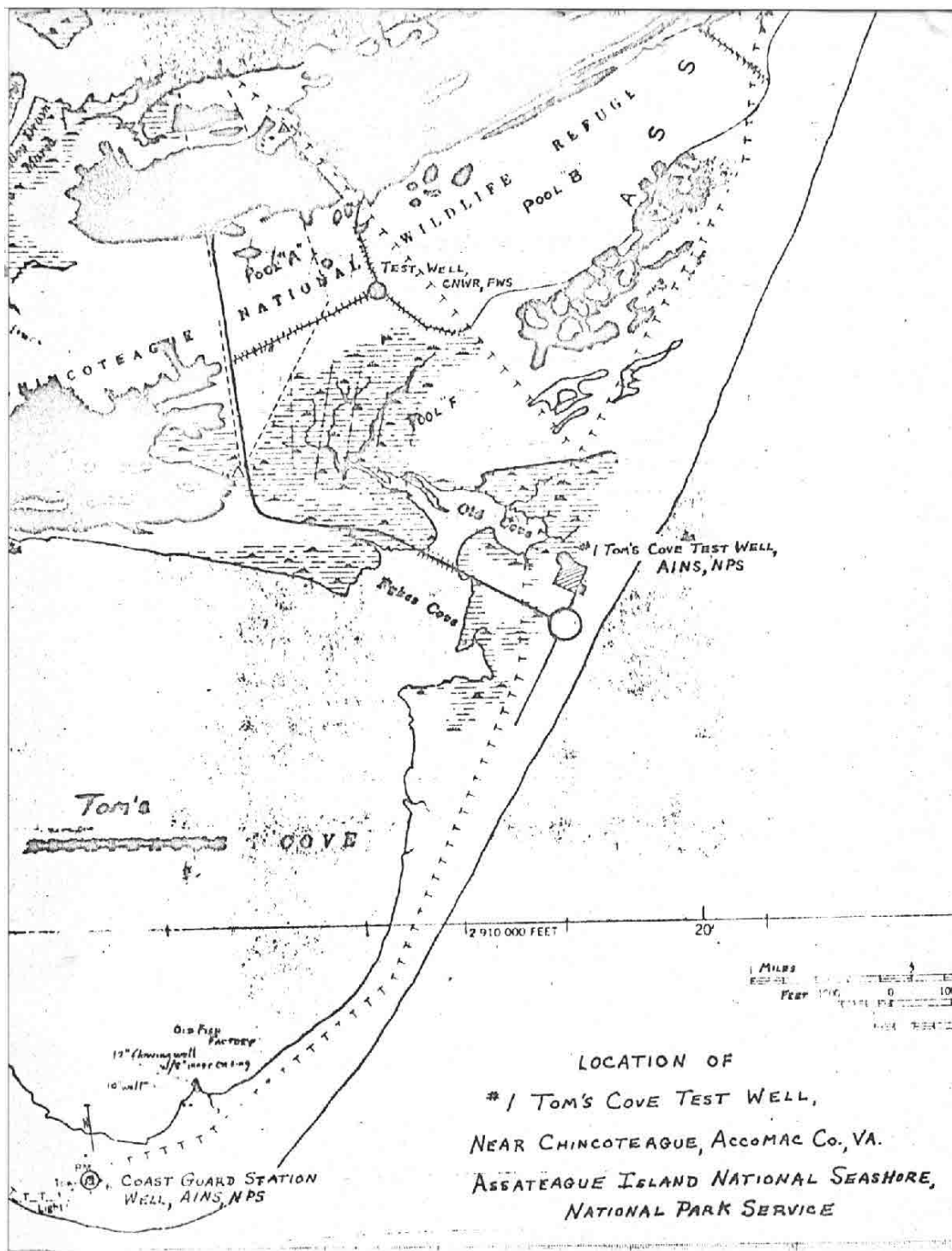
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TOWSON WRD		ANALYTICAL STATEMENT		COUNTY Accomack	
LAB NO		LAB NO		LAB NO	
Location nr Chincoteague, Va.		Date of collection MAY 24, 1967			
NPS Tom's Cove		Ignition Loss Color 10			
Fld. Cond. 7,000		Loss on 100°C 3,980		SiO ₂ Total 22	
Well #1 Toms		Calculated (Shul) 3,960		Fe Total .35	
Source (type of well) Cave		Tons per Acre Foot 537		Mn Total .01	
Depth 163'-168'		Hardness as CaCO ₃ 129		Ca 3.24 65	
Water Temp 52		Hardness as CaCO ₃ 129		Mg 7.49 91	
Sampled after pumping 7 hrs intermit.		Hardness as CaCO ₃ 129		Na 56.93 1,310	
Yield 20 cfm (max 100 cfm)		Alk as CaCO ₃ 408		K 1.13 44	
Type of cell disch. on 2" line		CO ₂ Calc. 8.0		Na+K 68.84	
Appearance clear		P as PO ₄ .05		HCO ₃ 8.15 497	
Temp (°F) 52				CO ₃ .00 0	
Collector E. F. Hollyday; 1900				SO ₄ 5.12 246	
Analyst J. Cherayns & Poush				Cl 54.72 1,940	
Date analyzed August 14, 1967				F .03 .6	
Checked by Rottis				NO ₃ .03 1.6	
Size Screened				68.06	

ENCLOSURE 12.-- Chemical analysis of water from #1 Toms Cove test well; temporary screen setting: 163 to 168 feet below land surface.

1958-WFO Form No. 1
 TOWSON WRD
 Location nr Chincoteague, Va.
NPS Tom's Cove
 Fld. Cond. 6,000
 Source (type of well) Well #1 Toms
 Other Cove
 Date 208-213'
 Sampled after pumping 0.1 gal pump
 Vol. disch. on 2" line
 Pt. of coll. muddy / screen at 210'
 Analyzed 60
 Trip (7) E. F. Holliday, 1215
 Collector J. Chamerlys & Poush
 Character August 14, 1967
 Date analyzed Retting
 Checked by 1/In solution
 Date reanalyzed

ENCLOSURE 13.-- Chemical analysis of water from #1 Toms Cove test well; temporary screen setting; 208 to 213 feet below land surface.



R. L. ROGETTE WELL DRILLING COMPANY

SMITHFIELD, VIRGINIA

LOG OF WELL For Assateague Island National Seashore

Located at Tom's Cove in Accomac County, State Maryland

Date Drilling Started , 19 Date Started 19

Finished Drilling , 19 Finished 19

Formation And Depth Of Well				Dimensions Of Casing And Screen			
Total Depth Of All Strata	Depth Of Each Stratum	Formation Found At Each Stratum		Total Length Of All Screens And Casings	Length Of Each Sec. Of Screen Or Casing	Specify Screen Or Casing	Size Of Screen Or Casing
Ft.	In.	Ft.	In.	Ft.	In.		
0	-	12					
12	-	24					
24	-	34					
34	-	45					
45	-	55					
55	-	65					
65	-	75					
75	-	85					
85	-	96					
96	-	106					
106	-	116					
116	-	126					
126	-	136					
136	-	146					
146	-	156					
156	-	164					
164	-	174					
174	-	184					
184	-	194					
194	-	205					
205	-	215					
215	-	225					
225	-	235					
235	-	245					
245	-	256					
256	-	266					
266	-	276					
276	-	286					
286	-	296					
296	-	307					
307	-	317					
317	-	327					
327	-	337					
337	-	347					
347	-	357					
357	-	367					
367	-	376					
376	-	386					
386	-	394					
394	-	404					
404	-	416					
416	-	425					
425	-	435					
435	-	446					
446	-	456					
456	-	466					
466	-	475					
475	-	486					
486	-	496					
496	-	507					
507	-	516					
516	-	526					
526	-	536					
536	-	546					
546	-	556					
556	-	566					
566	-	576					
576	-	586					
586	-	596					

WELL DATA:

Preliminary Test

Date Tested 19 Stat

Production GPM Pum

Permanent Test

Date Tested 19 Stat

Production GPM Acti

Draw Down Pumpi

Remarks:

Shop No. Type Lumbe

Type Head Size Suction

Depth Setting (BP to MB)

Size Column Length Sucti

Type Bowl Length Air I

No. Stages Discharge-

Cap'y. and Head Pressure

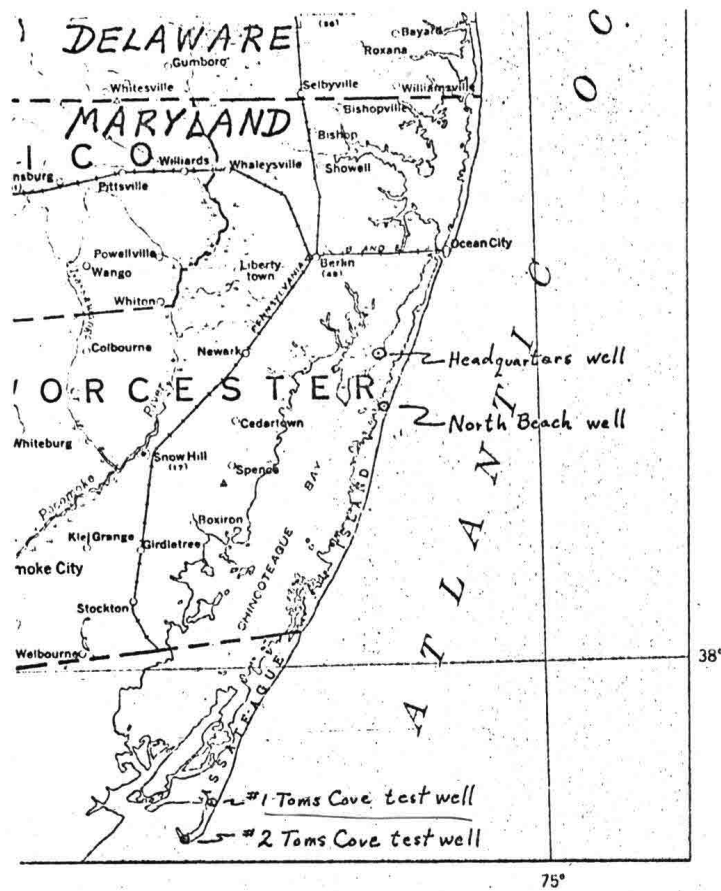
MOTOR DATA:

Horse Power Voltage

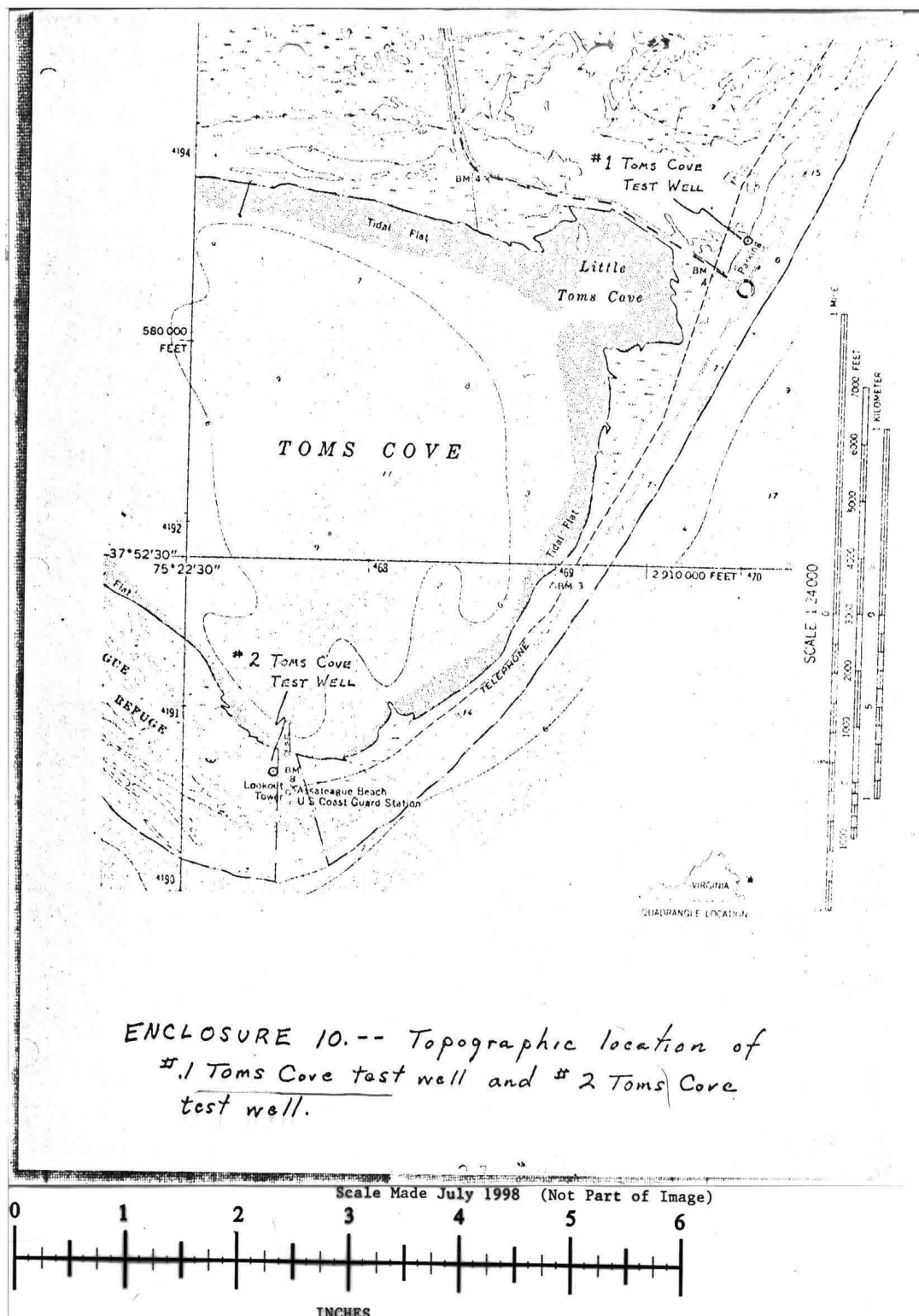
RPM Phase

Type Cycles

Make Frame No.



ENCLOSURE 1.-- Location of Assateague Island and test-well sites.



Docket Information

Number of Documents in Docket 11

Documents Dated from 11/26/1967 to 11/26/1967

Docket Compiled: 1/31/2011