Inventory of Drilling Activities of the U. S. Geological Survey in the United States, Fiscal Years 1979-1980

Compiled by
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U. S. Geological Survey OPEN-FILE REPORT 79-1567

This report is preliminary and has not been edited or reviewed for conformity with Geological Survey standards and nomenclature

> UNIVERSITY OF UTAH RESEARCH INSTITUTE EARTH SCIENCE LAB.

### FISCAL YEAR 1979

PROGRAM: Eartho	quake St	udies	DIVISION	Geolo	gic	BRANCH: Mechanics	and Prediction CONT	FACT: Mark Zoback, Menlo Pa	ırk, CA	DATE: Ju	ne 7, 1979
GROUPS OF DRILL	LHOLES				•					•	•
Number Fina of holes diam				tion Coun	ty	Generalized stratigraphy	· Principal objective		Cost	Other information	
5 6"	900	) <b>†</b>	CA	San Be	nito	Granite		stress, pore pressure, lity tests	\$40,000	Not yet dril	led .
INDIVIDUAL DRI	LLHOLES						•				•
Hole name or number	Depth	Final diam.	Cored intervals	<u>State</u>	Lat	Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish Date
NMTW1-X	23601	6"	1415'-2023	МО	36°24.62	' 89°33.74'	2000' Late Cretaceous- Tertiary Mississippi embayment sediments, 360' Paleozoic dolomite	Geologic and geophysical control, stress measurements		000 09/26/78	11/13/78
C <b>V-1</b>	2000	8"	ample sidewall coring	CA	36°43.42	121°20.89'	Located in San Andreas Fault zone - contact of granite and Tertiary sediments	Sample recovery, <u>in-sit</u> tests	<u>1</u> \$250,0	000 04/13/79	06/1/79
Monticello #2	3668'	6"	random intervals 1-8' long (2\$)	SC	34°17.92	81019.34	Granodiorite intrusions in Piedmont Province	In situ stress, pore presure, permeability tests	\$240,0	000 11/25/78	12/18/78
PROGRAM: Geothe	ermal St	udies	DVISION: Ge	ologic		BRANCH: Tect	onophysics	CONTACT: Tom Moses, Men	lo Park, CA	DATE: 9/	4/79
INDIVIDUAL DRI	LLHOLES								•		
Hole name or number	Depth	Final diam.	Cored intervals	State	Lat	Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish <u>Date</u>
ALP® BMT DOS NOG PNT	355 ' 248 484 504 504	5-1/2" " " "	0 n n	AZ AZ AZ AZ AZ	32°59.3° 32°47.0° 32°10.7° 32°22.7° 33°21.3°	110°55.4' 109°35.3' 110°45.5'	Granite " " " " "	Heat flow	\$2,7 " " \$3,8	03/31/79 04/13/79 04/04/79	04/01/79 04/14/79 04/10/79
These are holes	s permit	ted, or	in process	of bei	ng drille		abbreviations for the act longitude are only tental				

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## INDIVIDUAL DRILLHOLES (continued)

Hole name or number	Donth	Final diam.	Cored intervals	Stata	lat	Long	Generalized	Principal		Cont	Start	Finish
or number	Depth	dram.	Incer vars	State	Lat	Long	stratigraphy	objectives		Cost	Date	Date
RIN	504	5-1/2	" 0	AZ	32004.41	110039.5	Granite '	Heat flow		\$2,700	04/02/79	04/03/79
TBS	505	**	**	AZ	31041.21	110006.61	· ·	H	,		04/11/79	04/12/79
GBL,	540	Ħ	#	CA	40005.51	123048.01	Franciscan	H .		\$6,500	10/03/78	10/07/78
CCT	503	**	W	CA	35°02.41	117°55.0'	Granite	•		\$1,500	03/17/79	03/17/79
CPC	503	. #		CA	35°00.8'	118°20.6'	•	n		\$2,700	03/14/79	03/16/79
CIN	568	, #	n	CA	35°18.3'	118002.81	"	II .		\$4,000	02/27/79	03/01/79
ELP	485	. 11	. #	CA	35°26.0'	117053.51	#	n		\$3,500	03/04/79	03/07/79
GFZ	505	#		CA	35003.4	118°21.7'		<b>H</b> 		\$6,000	03/08/79	03/14/79
HFM	504	**	H	CA	35°21.6'	118006.6		<b>"</b>		\$2,700		03/03/79
RMR	504			CA	35°12.5'	117050.3'		<u>"</u>		\$2,700	03/18/79	
ANP	464	"	**	CA	38043.1'	123°20.8'	Franciscan and/or	<u>"</u>			03/06/79	
BVL	441		**	CA	38059.61	123°20.8'	Tertiary marine				11/07/78	12/04/78
CLN FTS	649	"		CA	39°50.1'	123009.91		" #				11/08/78
FR2	611 540		517-522'	CA	40°13.0' 38°34.8'	123 <sup>0</sup> 38.4' 122 <sup>0</sup> 38.9'	Toutions valorates	"				10/21/78 02/18/79
LYN	432	**	0	CA Ca	39043.81	123°30.1'	Tertiary volcanics Franciscan and/or				02/10/79	
NOY	652		0	CA	39024.51	123044.81	Tertiary marine	 N			01/14/79	01/21/79
UKI	630	11	540-5451	CÁ	39003.41	123009.1	n marine	н			02/06/79	
ONI	0,0		600-605'	On.	39 03.4	123 09.1	•				02/00/19	02/00/19
scv	463	**	0	CA	40001.31	124004.01	Ħ	11			10/04/78	10/10/78
LMR	497		Ħ	CA	39°56.8	123°21.1'	Ħ	Ħ				
KET	505	n	n	CA	40008.3	123024.61	m ·	**			10/22/79	11/01/78
PVY	546	#		CA	39°20.4	123°06.1'	n	H	•	*	02/02/79	02/05/79
TLR	465	n	*	AZ	32050.21	110007.31	Granite	Ħ			04/26/79	04/27/79
PNA	504	n		AZ	32033.41	109044.8	n	n			04/24/79	04/25/79
CAS	443	#		AZ	32012.21	110014.01	Ħ	Ħ			04/14/79	04/23/79
SEA	694	n	11	CA	38042.0'	122025.1'	Cretaceous marine	n			03/07/79	04/27/79
BRN	335'	5-1/2'		CA	34°53.6°	116012.8'	Granite	n			05/17/79	05/22/79
SHP	334'	Ħ	n	CA	34014.41	115 <sup>0</sup> 43.4'	#	•			05/05/79	05/06/79
AVA	335'	Ħ	H	CA	35°35.5'	116°28.4'					05/25/79	05/26/79
GPN	335 '	n		CA	34048.7	115°36.6'	. * #	n			05/23/79	
CDZ	335 '			CA	34034.21	115029.41	#	. <b>11</b>			05/06/79	05/07/79
CHB	225 '	"	**	CA	34021.91	115°17.2'		· "			-05/07/79	05/09/79
CXF	333'		,,	CA	34002.61	115°12.2'	π #	" "			05/03/79	05/04/79
BAG	335'	**		CA	34037.61	115049.6'		<u>"</u>			05/09/79	05/10/79
MUD	336	**		CA	35003.61	117000.0'	W				05/29/79 05/27/79	05/30/79
GRW TWT	335' 316'	**		CA	36°04.8' 34°05.4'	116°29.8' 116°00.7'					05/21/19	05/28/79 05/17/79
CXE	316°	11		CA CA	34006.11	115°21.1'	 N	n			05/10/79	05/11/79
DMD	335 ·	#		CA CA	34004.31	115°45.6'	 H	11			05/12/79	05/04/19
CXS	225'	#	H	CA	33055.41	115°18.2'	17	н			05/14/79	05/15/79
BOR	335'	n	*	CA	35°07.7	117°35.9'	11	Ħ			06/05/79	06/06/79
CQU	422'	Ħ	77	CA	34057.21	118017.1	#				06/06/79	06/08/79
FIC	305'	**	n	CA	35021.11	116°33.3'	Ħ	n			05/30/79	06/05/79
	507			On.	JJ C. 1. 1	110 33.53					-5. 5 15	

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INDIVIDUAL D	RILLHOLES (	(continued)
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Hole nam or number	_	Depth	Final diam.	Cored intervals	State	Lat	Long	Generalized stratigraphy		Principal objectives		Cos	Start <u>Date</u>	Finish <u>Date</u>
TEH		335′	5-1/2"	0	CA	35°08.3	118026.21	Granite .		Heat flow			06/08/79	06/10/79
LSNH		610'		e	CA	40°23.6	' 121°21.6'	Quaternary and	Tertiary	#			08/17/79	08/20/79
LSNL		310'	19	**	CA	40022.6		volcanics		Ħ		-	08/21/79	08/27/79
LSNG		565′	"	**	CA	40024.4		**		•			08/27/79	08/30/79
LKA		720'	5-1/8"		CA	36°42.2		Granite		n			07/23/79	08/11/79
LKB		685'	5-1/4"	*	CA	36041.6		#		11			07/25/79	07/27/79
LKC		696'	**	**	CA	36041.7		n		11		•	07/28/79	07/31/79
LKD		717'	"	<b>11</b> .	CA	36°38.4		11		11		-	08/01/79	08/09/79
COS		505'	5-1/2"		CA	38°04.7		n		n			07/06/79	07/08/79
GAS		365'		**	CA	37°53.7		Ħ		#			06/12/79	06/13/79
GTM		505'	5-1/4*	**	CA	37°54.3		n		n			06/13/79	
IND		505'	17	#	CA	37°56.0	' 118°53.3'	Ħ	•	11			07/11/79	07/13/79
Number of holes	Final		_		eation Coun	<u>ty</u>	Generalized stratigraphy	•	Principal objectives	· ·		Cost	Other information	
40 7	4-7/8"	30	m	CA CA	Los An Ventur				Shear-wave	measurements "		\$24,000 \$ 4,000		
PROGRAM:	Earthq	uake	·	DIVISIO	i: Geolo	gic	BRANCH: Seismo	logy	CONTA	CT: D. P. Hill,	Menlo Par	k, CA	DATE	E: 8/22/79
GROUPS OF	F DRILL	HOLES												
Number of holes	Final				ation Coun	<u>ty</u>	Generalized stratigraphy		Principal objectives			Cost	Other information	
20-30	6-9"	150	·	ID OR CA					Shot holes	for refraction	profiles	Total: approx. \$55,000	@ average \$15	i/ft.

PROGRAM: See Other Information DIVISION: Geologic CONTACT: Various (see Other Information) BRANCH: Engineering Geology DATE: 5/79 below GROUPS OF DRILLHOLES Principal 1 Location Generalized Other Number Final Average of holes diam. depth core State County stratigraphy objectives Cost information 6" 100 0 WY Quaternary sediments & terranes, Seismic research Program: Energy Lands 3 Johnson Unknown Ft. Union Formation Contact: C. Miller\* Program: Radioactive .14 6" 51 100 CO Jefferson Generally biotite and gneiss Research instrumentation \$3000 waste storage Contact: H. Swolfs\* 31 3-1/2" 15' OH \$5000 **Hamilton** Colluvium on flat-lying kope Landslide instrumentation Program: Landslide formation investigations Contact: R. Fleming\* "All contacts in Denver, CO. PROGRAM: DIVISION: Geologic BRANCH: Coal Resources CONTACT: Various (see Other Information) DATE: 8/28/79 GROUPS OF DRILLHOLES Number Final Location Generalized Principal Other Average stratigraphy objectives Cost information of holes diam. depth core State County 3" 4,040' primary CO Vermejo (Upper Cretaceous) & Coal evaluation 3 1350' Huerfano Las Animas Raton, Upper Cretaceous & 1.360' twin Paleocene 550' coring Contract Contact: Walter Danilchik\* 13,050' primary 29 3" 4501 2 MT Roosevelt Ft. Union (Paleocene) Coal evaluation 4,900' twin Daniels 385' coring Sheridan Contract Contact: H. H. Arndt\* Valencia Mesaverde Formation Coal evaluation 2000' primary 500' 1500' twin-Catron 40' coring USGS drill rig Contact: E. J. McKay\*

<sup>\*</sup>All contacts in Denver. CO.

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### GROUPS OF DRILLHOLES (continued)

Number of holes	Final	Average depth	core	Loca <u>State</u>	ation County	Generalized stratigraphy	Principal objectives	Cost	Other information
6	3"	5001	<b>1</b>	NH	Valencia	Crevasse Canyon Formation of Mesaverde Group	Location and thickness of coal Acoma Indian Reservation		USGS drilling 3,000' primary 2,600' twin 100' coring Contact: W. J. Mapel*
6-10	3"	550'	6	MM	Bernadillo	Crevasse Canyon	Assess coal resources of Canoncito Indian Reservation	· .	5500' primary 3000' twin USGS drill rig 550' coring Contact: Bill Mapel®
10	<b>3"</b>	350'		NM	San Juan	Menefee Coal	Coal evaluation		3500' primary 1500' twin Contract Contact: Robert O'Sullivan®
11	3"	1001	30	UT	Emery	Ferron Sandstone (Cretaceous)	Coal samples for petrographic study		USGS drilling 926' rotary 392' coring Contact: T. A. Ryer*
Ś		5381	25	UT .	Garfield Grand	Nelsen/Sego - Mesa Verde	Coal quality & quantity, stratig- raphy & correlation		2000' pilot 1400' twin 1160' coring USGS drilling rig Contact: J. Gualtieri
3	<b>3"</b>	1000'	25	UT	Emery	Star Point Sandstone (Creta- ceous)	Coal core		Contract 2,125' rotary 700' coring Contact: Joseph D. Sanchez#
11	3"	100'	30	UT	Emer <b>y</b>	Ferron Sandstone	Coal samples for petrographic study	\$17,000	USGS drill rig 926' rotary 392' coring Contact: T. A. Ryer*

<sup>#</sup>All contacts in Denver, CO.

CROHER	UE	DRII	LHOLES	( cont	hound
GRUUPS	L IF	DRIL	LUCLES	( CON L	i nuea i

Number of holes	Final diam.	Average depth	core	Local State	tion County	Generalized stratigraphy		Principal objectives	Cost	Other information
35+	3 <sup>n</sup>	400 ·	3	WÝ	Fremont	Mesaverde, Meeteet Formations; Cretad		Coal resource evaluation		14,000' primary 3,000' twin 600' coring Contract Contact: John F. Windolph, Jr.*
30	3"	500°	6	WY .	Campbell	Lebo Shale Member, Formation, Wasatch		Coal evaluation; stratigraphic correlation		15,000' primary 10,000' twin 1500' coring USGS drill rig Contact: R. G. Hobbs*
44	3"	450'	5	WY	Carbon Albany	Ferris (Paleocene) (Eocene)	and Hanna	Coal evaluation		Contract 20,000' rotary 1000' coring Contact: Dan E. Hansen
5-6	3"	4001	20-33	WY	Carbon Albany	Ferris (Paleocene) (Eocene)	and Hanna	Coal evaluation		USGS drill rig 1600' rotary 400'-800' coring Contact: Dan E. Hansen

### \*All contacts in Denver, CO.

PROGRAM: B.I.A Urani	•	28,-	DIVISION:	Geolog	;ic	BRANCH: Uranium (	& Thorium	CONTACT: Morris Green, Denver, CO	·	DATE	: - 8/23/79
INDIVIDUAL DRI	LLHOLES							•			-
Hole name or number		lnal lam.	Cored intervals	State	<u>Lat</u>	Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish <u>Date</u>
Gallup Sag	60001 6	5"	Morrison Fm.	. NM	35°40'	108°53'30"	CretPrecambrian	Lithology, facies, mineral- ization, alteration	\$180,000	Oct. 1	
Hopi Buttes 1	2000' 6	5#	Diatreme	AZ	35°15'	110°2.30'	Tuff, agglomerate blocks, other volcanic rocks and sedimentary inclusions	Distribution of mineral- ized zones in volcanics and sedimentary inclusions	\$140,000	Oct. 1	

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INDIVIDUAL DRI	LLHOLES	(conti	nued)							•	
Hole name or number	Depth	Final	Cored intervals	State	Lat	Long	Generalized stratigraphy	Principal <u>objectives</u>	Cost	Start Date	Finish Date
Hopi Buttes 2	1000	6"	Diatreme	AZ	35°15'	110°2.30'	Same as Hopi Buttes	Same as Hopi Buttes 1			
Hopi Buttes 3	1000	6"		AZ	#	n	n n n	11 17 .14 10 10			•
PROGRAM: Lithi		ırce	DIVISION:	Geolog	gic	BRANCH: Chem. Re	sources	CONTACT: J. Vine, Denver, CO		DATE	: 8/22/79
INDIVIDUAL DRI	LLHOLES				•						
Hole name or number	Depth	Final	Cored intervals	State	<u>Lat</u>	Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish Date
. 1	700	4.5"	none	NA	37 049 1	117°58'	Playa sediments	Li-brine or clay		9/79	
2	1000	n	H	NV	37°52'	117°56'	11 11	H H H	•		
3	600	Ħ	17	NV	37°57'	117042	H . H	11 11	•	•	
, 4	. 400	Ħ	Ħ	NV	38003	117°35'	76 10	11 11 11			
5	500		11	NV	37051	117024	tt tt	. 11 11 11			
6	400	**	n	NV	37 054	117018	11 11	19 19 17			
7	400	*	**	NV	37 054 1	1170041	н н	H H H			
8	500	Ħ	#	NV	37°32'	117°09'	19 17	H H H	\$75,000		10/79
PROGRAM: Utah	Oil Shal	.е	DIVISION:	Geolog	gic	BRANCH: Chemical	Resources	CONTACT: W. B. Cashion, Denver	со	DATE	: 8/28/79
INDIVIDUAL DRI	LLHOLES									·	
Hole name or number	<u>Depth</u>	Final diam.	Cored intervals	State	Lat	Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish <u>Date</u>
1	200	3.5"	150-200	UT	39°36'N	109°37'W	Parachute Creek Mem of the Green River		\$4,500		
2	**	п	m m	UT	39°34'N	109°32'W	mation (oil shale a siltatone)		•		
3	**	<b>n</b> .		UT	39°31'N	109°35'W			n		
ų	н	n	и и	UT	39°30'N	· 109°29'W			n	10/1/79	10/30/79

## INDIVIDUAL DRILLHOLES (continued)

Hole name	,		Final		Cored				Generalized	•	Principal		Sta	irt Finish
or number	<u>.</u>	Depth	diam.	in	tervals	State	Lat	Long	strat1graphy		objectives	Cos	t Dat	e Date
5		H	**	**	•	UT	39°28'N	109°27'W	(see previous	page)	(see previous page)	. \$4,	500	
6		n	n	**	H	UT	39°24'N	109°27'W	**		11			•
7		n	n	**		UT	39°32'N	109°31 W	**		**	<b>\$31</b> ,	,500	
PROGRAM:	Blackta	il Mou	ntain		DIVISION:	Geolo	gic	BRANCH: Central N	dineral Resource	s CONT	ACT: J. W. Hasler, Denver	, co		DATE: 8/22/79
GROUPS OF	DRILL	HOLES	ė				•							
Number of holes	Final diam.	Avera dept	•		Loca State	tion Coun	<u>ty</u>	Generalized stratigraphy		Principal objective		Cost	Other information	<u>on</u>
22	4&7/8°	' 81 <i>.</i>	1 96	•3	MT	Flathe	ad	Precambrian belt Empire and Spokar			on stratabound copper es in green beds of belt p	\$80,800	Beds were continuous hole was c Obtained 3 (76.2 mm) Holes rang 30-155 fee	oly after collared. 3-inch core. ge from
PROGRAM:					DIVISION:	Geolo	gic	BRANCH: Astrogeol	logy	CONT	ACT: David Roddy, Flagsta	ff, AZ		DATE: 8/30/79
GROUPS OF	DRILLE	OLES												•
Number of holes	Final diam.	Avera dept			Loca <u>State</u>	tion <u>Coun</u>	<u>ty</u>	Generalized stratigraphy		Principal objective		Cost	Other information	<u>on</u>
15	BX and NX	200 300		0	TN .	Jack	son	Fort Payne Chert Chattanooga Shale Impact crater bre Leipers Formation Catheys Formation Cannon limestone Hermitage Formati Stones River Grow and dolomite) Knox Group (limes dolomite)	eccia n (limestone) n (limestone) ion (limestone) up (limestone	Study of	impact cratering	See "Other Info."	no estimat	in progress— te of cost within Flynn act crater.

							<del></del>							
PROGRAM:				DIVISION	N: Geologie	e E	BRANCH: Eastern E	nvironmental	CONT	ACT: Dennis Duty, Resto	on, VA	D	ATE:	
GROUPS OF	DRILLH	OLES							4	•		•		
Number of holes	Final diam.	Avera dept			eation County		Generalized stratigraphy		Principal objectives		Cost		ther nformation	- 1
<b>1</b> 4	3" 4"	50' 50'	75 10	MA MA	Barnestal Plymouth		Mashpee Outwash p Pleistocene/Terti		Stratigra <sub>l</sub>	phic test		Sa	olit spoon s ample overbu	-
2 2	3" 4"	100 ' 250 '	75 90	MA NY	Bristol Rockland	_	Pleistocene Friassic/Paleoz./	PrC	Glacial to Assess se	ectonics ismicity of faults		SI	nelby tube s	
INDIVIDUA	L DRILL	HOLES								,			•	
Hole name or number		Depth	Final diam.	Cored intervals	State	Lat	Long	Generalized stratigraphy		Principal objectives		Cost	Start Date	Finish Date
Cusseta #	1	120'	2&1/2"	100	GA	32.319	84.790	Upper Blufftow	n Fos.	Stratigraphic test	• .	•	10/20/79	10/21/79
Buena Vis	ta NW f	'1 105 <b>'</b>	2&1/2"	100	GA	32.410	84.640	·Lower Blufftow	n/Eutaw	Stratigraphic test	,		10/23/79	10/24/79
Eufaula N	lorth #1	75'	2 <b>&amp;</b> 1/2"	100	AL	31.160	85.150	Upper Ripley Fi	m.	Stratigraphic test			10/25/79	10/26/79
Eufaula N	iorth #2	120'	2&1/2"	100	AL	31.910	85.150	Ripley/Cusseta		Stratigraphic test			10/26/79	10/27/79
Brooklyn	<b>#</b> 1	121'	2&1/2"	100	GA	32.230	84.700	Providence/Rip	ley	Stratigraphic test			10/28/79	10/29/79
Catamount	12	6001	Йш	100	NY	41.10°	74.050	Triassic/Paleo	z./PC.	Identify seismicity of faults	•	\$11,000	. 10/78	9/79
PROGRAM:	Evaluat Lands	ion of	Indian	DIVISION	: Geologic	; E	BRANCH: Eastern M	ineral Resource	s CONT	ACT: William F. Cannon,	Reston,	VA ,	DATE	: 4/25/79
GROUPS OF	DRILLH	OLES									•			
Number of holes	Final	Averaç depti	-		eation County		Generalized stratigraphy		Principal objectives	<u>3</u>	<u>Cost</u>		ther nformation	
3	2"	500	1001	. WI	Forest	_	Lower Proterozo1c rocks	volcanic .	causing el	lectromagnetic ( . Evaluate potential	\$40,000 estimate	) fo	filling is por June and	

# $\underline{FY-79}$ - continued

PROGRAM:	DIVISION: Geologic	BRANCH: Atlantic-Gulf of Mexico	CONTACT: J. Robb, Woods Hole,	MA	DATE: 4/25/79
GROUPS OF DRILLHOLES					
Number Final Average of holes diam. depth con	Location e State County	Generalized stratigraphy	Principal objectives	Othe Cost info	er ormation
40 3&1/2" 30' 10 core diam.	Middle Atlantic area: Continental	Pleistocene and older	Geotechnical properties in slump and non-slump areas		ject planned to be inued in FY80.
	Slope, 200-2000 m				
PROGRAM: Geothermal Research	DIVISION: WRD	REGION: Western	CONTACT: James H. Robison, Menlo I	ark, CA	DATE: May 22, 1979
GROUPS OF DRILLHOLES					
Number Final Average of holes diam. depth con		Generalized stratigraphy	Principal objectives	Othe Cost info	er ormation
3 5" 500' 1	CA Riverside	Alluvium, lake deposits	Geothermal Resource Assessment	\$10,000 Coac	chella Valley
INDIVIDUAL DRILLHOLES		•		· .	
Hole name Final or number Depth diam.	Cored intervals State Lat	Generalized Long stratigraphy	Principal objectives	Cost	Start Finish Date Date
		Long stratigraphy	objectives volcanics Geothermal Resource	<u>Cost</u> \$100,000	
or number Depth diam.	intervals State Lat	Long stratigraphy 5' 121°13.3' Late Cenozoic	objectives volcanics Geothermal Resource	\$100,000	
or number Depth diam.  1 3000' 4"	Intervals State Lat All OR 43°42.	Long stratigraphy 5' 121°13.3' Late Cenozoic of Newberry C	objectives volcanics Geothermal Resource aldera	\$100,000	Date Date
or number Depth diam.  1 3000' 4"  PROGRAM:	intervals State Lat All OR 43°42.  DIVISION: WRD  Location	Long stratigraphy 5' 121°13.3' Late Cenozoic of Newberry C	objectives volcanics Geothermal Resource aldera	\$100,000 Park, CA	Date Date  DATE: 9/4/79
or number Depth diam.  1 3000' 4"  PROGRAM:  GROUPS OF DRILLHOLES  Number Final Average of holes diam. depth con  20 1&1/2" 20-80' 12-15 2" 20-60'	intervals State Lat  All OR 43°42.  DIVISION: WRD  Location e State County  WA Okanogan WA Thurston	Long stratigraphy  5' 121°13.3' Late Cenozoic of Newberry C  RECION: Western  Generalized stratigraphy  Alluvium-glacial drift Alluvium	objectives volcanics Geothermal Resource aldera  CONTACT: E. R. Leggat, Menlo Principal	\$100,000  Park, CA  Othe  Cost info  \$15,000 \$6,500	Date Date  DATE: 9/4/79
or number Depth diam.  1 3000' 4"  PROGRAM:  GROUPS OF DRILLHOLES  Number Final Average of holes diam. depth com 20 1&1/2" 20-80'	intervals State Lat  All OR 43°42.  DIVISION: WRD  Location e State County  WA Okanogan	Long stratigraphy  5' 121°13.3' Late Cenozoic of Newberry C  RECION: Western  Generalized stratigraphy  Alluvium-glacial drift	objectives  volcanics Geothermal Resource aldera  CONTACT: B. R. Leggat, Menlo  Principal objectives  Observation wells	\$100,000  Park, CA  Othe  Cost info  \$15,000 \$6,500 \$8,200 \$18,700 Qual	Date Date  DATE: 9/4/79  er ermation
PROGRAM:  Or number Depth diam.  1 3000' 4"  PROGRAM:  GROUPS OF DRILLHOLES  Number Final Average of holes diam. depth cor  20 1&1/2" 20-80' 12-15 2" 20-60' 20 2" 10-50'	All OR 43°42.  DIVISION: WRD  Location e State County  WA Okanogan WA Thurston WA King WA King	Long stratigraphy  5' 121°13.3' Late Cenozoic of Newberry C  REGION: Western  Generalized stratigraphy  Alluvium-glacial drift Alluvium Alluvium	objectives  volcanics Geothermal Resource aldera  CONTACT: E. R. Leggat, Menlo  Principal objectives  Observation wells	\$100,000  Park, CA  Othe  Cost info  \$15,000 \$6,500 \$8,200 \$18,700 Qual samp \$15,000 Salt	Date Date  DATE: 9/4/79  Promation  ity of water ling water-fresh water
Depth diam.   1   3000' 4"	All OR 43°42.  DIVISION: WRD  Location e State County  WA Okanogan HA Thurston WA King WA King WA Coos Bay	Long stratigraphy  5' 121°13.3' Late Cenozoic of Newberry C  REGION: Western  Generalized stratigraphy  Alluvium-glacial drift Alluvium Alluvium Glacial drift	objectives  volcanics Geothermal Resource aldera  CONTACT: E. R. Leggat, Menlo  Principal objectives  Observation wells """ "" """ """	\$100,000  Park, CA  Othe  Cost info  \$15,000 \$6,500 \$8,200 \$18,700 Qual samp \$15,000 Salt inte \$20,000 Hydr	Date Date  DATE: 9/4/79  or promation  ity of water bling

# GROUPS OF DRILLHOLES (continued)

Number Final of holes diam		_		tion Coun		eneralized tratigraphy	Principa <u>objectiv</u>			ther nformation	
50 2"	250	0'	WA	King	G)	lacial drift	Observat	tion wells	-	uality of w	ater .
1 12"	120	0'	WA	Doug1	ass Ba	asalt	Piezomet	ters		ampling ead measure	ment
INDIVIDUAL DRII					÷		• .		•	·	
INDIAIDONE DUIT	LLNULES					•	•				
Hole name or number	Depth	Final diam.	Cored intervals	State	Lat	Long	Generalized stratigraphy	Principal objectives	Cost	Start <u>Date</u>	Finish <u>Date</u>
TI2N/R1E-34RD1	٠		•								*.
(Test hole 1)	2501'	3"	100' 90'	CÁ	38°50.20'	121°50.36'	Alluvium	Stratigraphy-hydrologic characteristics, head	\$177,00	0 3/5/79	4/12/79
Test hole 2	1400'	_	sidewalls 100 core (60' sidewall		39°27.30'	121°57.50'	Alluvium	distribution, water quali Stratigraphy-hydrologic charactistics, head dis-	\$150,00	0 6/79	8/79
Kona T-1	1040	6"	none	HI		•	Basalt	tribution, water quality, observation of water leve		0 3/79	5/79
PROGRAM: Data (	Collecti	on	DIVISION:	W/R	Di	ISTRICT: Arkan:	sas . CON	TTACT: A. H. Ludwig, Little F	Rock, AR	DAT	E: 8/23/79
PROGRAM: Data (		on	DIVISION:	W/R	Di	ISTRICT: Arkans	sas . CON	TACT: A. H. Ludwig, Little F	Rock, AR	DAT	E: 8/23/79
INDIVIDUAL DRIE				W/R	Di	ISTRICT: Arkan:	-		Rock, AR		
•		on Final		W/R State		ISTRIC <b>T: A</b> rkan: Long	Generalized  stratigraphy	TACT: A. H. Ludwig, Little F Principal objectives	Rock, AR  Cost	DAT Start <u>Date</u>	E: 8/23/79 Finish Date
INDIVIDUAL DRILL	LLHOLES	Final	Cored			:	Generalized stratigraphy Cretaceous, Tertiary,	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish
INDIVIDUAL DRIE Hole name or number	<u>Depth</u>	Final	Cored intervals		<u>Lat</u>	Long	Generalized stratigraphy	Principal objectives	<u>Cost</u>	Start	Finish Date
INDIVIDUAL DRIE Hole name or number 16N01E30 18N02E25 13N01W30	Depth 360' 400'	Final diam.	Cored intervals  0 0 0		<u>Lat</u> 35°59'31" 36°10'07" 35°49'28"	<u>Long</u> 91 <sup>0</sup> 00'59"	Generalized stratigraphy Cretaceous, Tertiary,	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date 2/28
INDIVIDUAL DRIE Hole name or number 16N01E30 18N02E25 13N01W30 12N02W05	Depth 360' 400' 400' 450'	Final diam.  4"  4"  4"  4"	Cored intervals  0 0 0 0		Lat 35°59'31" 36°10'07" 35°49'28" 35°42'32"	Long 91°00'59" 90°49'00" 91°07'54" 91°12'47"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date 2/28 3/7 3/8 3/27
INDIVIDUAL DRIE Hole name or number 16N01E30 18N02E25 13N01W30 12N02W05 08S17W18	Depth 360' 400' 400' 450' 240'	Final diam.  the	Cored intervals  0  0  0  0  0  0		Lat 35°59'31" 36°10'07" 35°49'28" 35°42'32" 34°01'59"	Long 91°00°59" 90°49°00" 91°07°54" 91°12°47" 92°52°59"	Generalized stratigraphy Cretaceous, Tertiary, Quaternary	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date 2/28 3/7 3/8 3/27 4/26
INDIVIDUAL DRII Hole name or number  16N01E30  18N02E25 13N01W30 12N02W05 08S17W18 08S17W14	Depth 360' 400' 400' 450' 240' 165'	Final diam.  the	Cored intervals  0  0  0  0  0  0  0  0		Lat 35°59'31" 36°10'07" 35°49'28" 35°42'32" 34°01'59" 34°01'25"	Long 91°00'59" 90°49'00" 91°07'54" 91°12'47" 92°52'59" 92°48'45"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " " Tertiary-Quaternary "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date  2/28  3/7 3/8 3/27 4/26 4/27
INDIVIDUAL DRIE  Hole name or number  16N01E30  18N02E25 13N01W30 12N02W05 08S17W18 08S17W18 11S19W04	Depth 360' 400' 400' 450' 240' 165' 150'	Final diam.  4" 4" 4" 4" 4" 4" 4"	Cored intervals  0  0  0  0  0  0  0  0		Lat 35°59'31" 36°10'07" 35°49'28" 35°42'32" 34°01'59" 34°01'55" 33°48'50"	Long 91°00'59" 90°49'00" 91°07'54" 91°12'47" 92°25'59" 92°48'45" 93°03'33"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date 2/28 3/7 3/8 3/27 4/26 4/27 4/30
INDIVIDUAL DRIE  Hole name or number  16N01830  18N02E25 13N01W30 12N02W05 08S17W18 08S17W18 11S19W04 12S20W16	Depth  360' 400' 400' 450' 240' 165' 150' 300'	Final diam.  4"  4"  4"  4"  4"  4"  4"  4"	Cored intervals  0  0  0  0  0  0  0  0  0  0		Lat 35°59'31" 36°10'07" 35°49'28" 35°42'32" 34°01'59" 34°01'25" 33°48'50"	Long 91°00'59" 90°49'00" 91°07'54" 91°12'47" 92°52'59" 92°48'45" 93°03'33" 93°10'00"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " " Tertiary-Quaternary "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date  2/28  3/7  3/8  3/27  4/26  4/27  4/30  5/1
INDIVIDUAL DRIE  Hole name or number  16N01E30  18N02E25 13N01W30 12N02W05 08S17W18 08S17W19 11S19W04 12S20W16 14S22W05	Depth  360'  400' 400' 450' 240' 150' 300' 150'	Final diam.  4" 4" 4" 4" 4" 4" 4"	Cored intervals  0  0  0  0  0  0  0  0		Lat 35°59'31" 36°10'07" 35°49'28" 35°42'32" 34°01'55" 33°48'50" 33°41'34" 33°33'16"	Long 91°00'59" 90°49'00" 91°07'54" 91°12'47" 92°52'59" 92°98'45" 93°03'33" 93°10'00"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " " Tertiary-Quaternary "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date  2/28  3/7 3/8 3/27 4/26 4/27 4/30 5/1 5/2
INDIVIDUAL DRIE  Hole name or number  16N01E30  18N02E25 13N01W30 12N02W05 08S17W18 08S17W14 11S19W04 12S20W16 14S22W05 13S23W04	Depth 360' 400' 400' 450' 240' 165' 150' 300' 150'	Final diam.  4"  4"  4"  4"  4"  4"  4"  4"  4"	Cored <u>intervals</u> 0  0  0  0  0  0  0  0  0  0  0		Lat 35°59'31" 36°10'07" 35°49'28" 35°42'32" 34°01'59" 33°48'50" 33°41'34" 33°33'16" 33°38'46"	Long 91°00'59" 90°49'00" 91°07'54" 91°02'47" 92°52'59" 92°048'45" 93°03'33" 93°10'00" 93°24'14"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " " Tertiary-Quaternary "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date  2/28  3/7  3/8  3/27  4/26  4/27  4/30  5/1  5/2  5/2
INDIVIDUAL DRIE  Hole name or number  16N01E30  18N02E25 13N01W30 12N02W05 08S17W18 08S17W19 11S19W04 12S20W16 14S22W05	Depth  360'  400' 400' 450' 240' 150' 300' 150'	Final diam.  4"  4"  4"  4"  4"  4"  4"  4"  4"  4	Cored intervals  0  0  0  0  0  0  0  0  0  0  0  0  0		Lat 35°59'31" 36°10'07" 35°49'28" 35°42'32" 34°01'55" 33°48'50" 33°41'34" 33°33'16"	Long 91°00'59" 90°49'00" 91°07'54" 91°12'47" 92°52'59" 92°98'45" 93°03'33" 93°10'00"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " " Tertiary-Quaternary "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date  2/28  3/7 3/8 3/27 4/26 4/27 4/30 5/1 5/2
INDIVIDUAL DRIE  Hole name or number  16N01E30  18N02E25 13N01W30 12N02W05 08S17W18 08S17W14 11S19W04 12S2OW16 14S22W05 13S23W04 13S20W36	Depth 360' 400' 400' 450' 240' 165' 150' 300' 150' 150' 150'	Final diam.  the	Cored intervals  0  0  0  0  0  0  0  0  0  0  0  0  0		Lat  35°59'31"  36°10'07" 35°49'28" 35°42'32" 34°01'59" 39°48'50" 33°48'50" 33°48'46" 33°33'16" 33°33'24"	Long 91°00'59" 90°49'00" 91°07'54" 91°12'47" 92°52'59" 92°48'45" 93°03'33" 93°10'00" 93°24'14" 93°29'12"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " " Tertiary-Quaternary "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date  2/28  3/7  3/8  3/27  4/26  4/27  4/30  5/1  5/2  5/2  5/2  5/3
INDIVIDUAL DRIE  Hole name or number  16N01E30  18N02E25 13N01W30 12N02W05 08S17W18 08S17W18 11S19W04 12S20W16 14S22W05 13S23W04 13S20W36 14S19W29 17S19W15 18S20W20	Depth  360' 400' 400' 450' 240' 165' 150' 150' 123' 250' 300' 310'	Final diam.  4"  4"  4"  4"  4"  4"  4"  4"  4"  4	Cored <u>intervals</u> 0  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Lat  35°59'31"  36°10'07" 35°49'28" 35°42'32" 34°01'59" 33°41'34" 33°33'16" 33°38'16" 33°38'24" 33°33'24" 33°39'42" 33°99'22"	Long 91°00'59" 90°49'00" 91°07'54" 91°12'47" 92°25'59" 92°48'45" 93°03'33" 93°10'00" 93°24'14" 93°29'12" 93°05'13" 93°05'13" 93°012'10"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " " Tertiary-Quaternary "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date  2/28  3/7  3/8  3/27  4/26  4/27  4/30  5/1  5/2  5/3  5/4  5/7  5/8
INDIVIDUAL DRIE  Hole name or number  16N01830  18N02E25 13N01W30 12N02W05 08S17W14 11S19W04 12S20W16 14S22W05 13S23W04 13S20W36 14S19W29 17S19W15 18S20W20 18S23W26	Depth  360'  400' 400' 450' 240' 150' 150' 150' 123' 250' 300' 310' 290'	Final diam.  4"  4"  4"  4"  4"  4"  4"  4"	Cored <u>intervals</u> 0  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Lat  35°59'31"  36°10'07" 35°49'28" 35°42'32" 34°01'55" 33°48'50" 33°41'34" 33°33'16" 33°33'24" 33°29'42" 33°09'22" 33°09'22"	Long 91000'59" 90049'00" 91007'54" 91012'47" 92052'59" 92048'45" 93003'33" 93010'00" 93024'14" 93029'12" 93007'08" 93005'13" 93003'12" 9301'10" 93027'48"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " " Tertiary-Quaternary "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date  2/28  3/7  3/8  3/27  4/26  4/27  4/30  5/1  5/2  5/2  5/3  5/4  5/7  5/8  5/9
INDIVIDUAL DRIE  Hole name or number  16N01E30  18N02E25 13N01W30 12N02W05 08S17W18 08S17W18 11S19W04 12S20W16 14S22W05 13S23W04 13S20W36 14S19W29 17S19W15 18S20W20	Depth  360' 400' 400' 450' 240' 165' 150' 150' 123' 250' 300' 310'	Final diam.  4"  4"  4"  4"  4"  4"  4"  4"  4"  4	Cored <u>intervals</u> 0  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Lat  35°59'31"  36°10'07" 35°49'28" 35°42'32" 34°01'59" 33°41'34" 33°33'16" 33°38'16" 33°38'24" 33°33'24" 33°39'42" 33°99'22"	Long 91°00'59" 90°49'00" 91°07'54" 91°12'47" 92°25'59" 92°48'45" 93°03'33" 93°10'00" 93°24'14" 93°29'12" 93°05'13" 93°05'13" 93°012'10"	Generalized stratigraphy  Cretaceous, Tertiary, Quaternary " " Tertiary-Quaternary "	Principal <u>objectives</u> Water Resources Investiga	<u>Cost</u>	Start	Finish Date  2/28  3/7  3/8  3/27  4/26  4/27  4/30  5/1  5/2  5/3  5/4  5/7  5/8

PROGRAM: Liquid Waste,
Arbuckle Group, KS

DIVISION: WRD

DIVISION: WRD

DISTRICT: Kansas

DISTRICT: Kansas

CONTACT: A. J. Gogel, Lawrence, KS

CONTACT: J. B. Gillespie, Lawrence, KS

DATE: 8/23/79

DATE: 8/22/79

INDIVIDUAL	DRILLHOLES
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Hole name or number		Final diam.		Cored intervals	State	Lat	Long	Generalized stratigraph		Principal objectives	Cost	Start <u>Date</u>	Finish Date
1	- 215	0' 4"				38°28'33"	94054128"	Limestones,	shales	Arbuckle (hydraulic parameters)	\$76,000	10/79	, <del></del> .
2 3	300 370			' in Arbuckle	•	39 <sup>0</sup> 00'45" 38 <sup>0</sup> 51'19"	95°28'24" 97°33'59"	Limestones, Limestones,		parameters) #	\$141,000 \$168,000	11/79 11/79	 
PROGRAM:	Contami Beds	nation-Equ	ากล	DIVISION:	WRD	DI	STRICT: Kansas	-	· CO	NTACT: J. B. Gillespie, Lawre	nce, KS	DATE	: 8/22/79
GROUPS OF	7 DRILLH	OLES						•			e e		
Number of holes	Final diam.	Average depth	core	Locat State	ion Count		neralized ratigraphy		Princip objecti	•	Othe Cost info	r rmation	
5	2"	2001		KS	Reno		luvium and, gravel, s	ilt, and clay		ntity and quality. GS flowing. GS solute transport	\$15,000 Dril	ling (Jun	e, 1979)

modeling.

GROUPS OF DRILLHOLES

PROGRAM: Wellington aquifer

parameters

Number of holes	Final	Average depth	core	Loca State	tion County	Generalized stratigraphy	Principal objectives	Cost	Other information
<b>A</b> .	ų n	150'	0	KS	Saline	60' alluvium (sand & gravel). 90' shale and interbedded shale and gypsum	Determine aquifer parameters.	\$10,000	Drilling June & July, 1979

PROGRAM:

DIVISION: WRD

DISTRICT: Louisiana

CONTACT: George T. Cardwell, Baton Rouge, LA

DATE: 8/23/79

### GROUPS OF DRILLHOLES

Number of holes	Final diam.	Average depth	core	Loc State	cation County	Generalized stratigraphy	Principal objectives	Cost	Other information
2	2"	650'	0	LA	East Baton Rouge and West Baton Rouge.	Pleistocene sand and gravel	Water-level monitors	\$3000	
8 (in addit to wells		Sa	None Rotary irill imples only)	LÁ	De Soto	Unconsolidated sand of Tertiary age (mostly Wilcox Sand).	Lignite project	est. \$2000	

## INDIVIDUAL DRILLHOLES

Hole name or number	Depth	Final diam.	Cored intervals	State Lat	Long	Generalized stratigraphy	Principal objectives	Cost	Start <u>Date</u>	Finish Date
C1-148	745'		0	32054137#	92 <sup>0</sup> 50 ' 33"	Unconsolidated sand and	Stratigraphy, water quality	\$7142.50	10/4/78	10/11/78
C1-149	907 '	5.6"	Rotary	33000102"	92044159#	clay of Tertiary age	and water level information			10/19/78
Ja-156	814'	4.5"	drill	32°17'30"	92 <sup>0</sup> 37 ' 37"	(mostly Sparta Sand).		\$9143.00	12/27/78	1/22/79
L-153	7641	5.6*	samples	32040'18"	92048 122"	• •		\$7022.00	10/11/78	10/18/78
Ou-488	957 '	4.5"	only.	32024 ' 37"	92024 ' 31"	n	11	\$11635.00	1/22/79	2/7/79
Un-134	859	4.5"	m T	32°36'55"	92 <sup>0</sup> 21'17"	11	n	\$9305.00	2/5/79	3/2/79
Wb-398	623'	4.75"	m	32045 ' 28"	93 <sup>0</sup> 15†35"	Ħ	Ħ	\$6309.00	10/2/78	10/6/78
Wb-399	417'	5.0"	Ħ	32°55'18"	93022119"	<b>H</b> .	<b>n</b> .	\$4521.00	10/16/78	10/19/78
W-174	469		Ħ	32004 1 33"	92046 1524	n	n	\$4883.00	2/16/79	2/16/79

PROGRAM: Montana District

DIVISION: WRD

DISTRICT: Montana

CONTACT: Joe A. Moreland, Helena, MT

DATE: 8/28/79

### GROUPS OF DRILLHOLES

Number of holes	Final diam:	Average depth	core	Loca State	ation County	Generalized stratigraphy	Principal objectives	Cost	Other <u>information</u>
25 50	pa pa pa	200' 200' 1000'	5	MT MT MT	Rosebud Rosebud Rosebud &	Sedimentary sandstone and coal Sedimentary sandstone and coal Fort Union Formation	Groundwater observation wells Groundwater observation wells Groundwater observation wells	\$20,000 \$60,000 \$90,000	Coal hydrology Drill by cooperator Northern Great Plains
	4	1000		WI.	Custer	FOR UNION FORMACION	Groundwater observation wells	\$90,000	Regional Aquifer Study

PROGRAM: High Plains RASA Project NE 78-041 DIVISION: WRD

REGION: Central

CONTACT: M. J. Ellis, Lincoln, NE

DATE: 6/26/79

### GROUPS OF DRILLHOLES

Number	Final	Average	*	Loca	ition	Generalized .	Principal		Other
of holes	dlam.	depth	core	<u>State</u>	County	stratigraphy	objectives	Cost	information
Ħ.	4-5"	455'	0	NE	Holt	Surficial wind-blown sand	Collection of data to determine the	•	Contract has not been
4	*	690'	0	NÉ	Rock	deposits	thickness of the principal aquifer	•	awarded, and cost
1	**	610'	0	NE	Brown	Pleistocene sand and gravel	system, and provide a basis for		cannot be determined
4	11	550'	0	NE	Cherry	deposits	estimating hydraulic conductivities		
4	**	740'	0	NE	Loup	Miocene Ogallala Formation	and specific yields of aquifer		
2	**	730'	0	NE	Blaine	Oligocene Brule Fm.	material.		
ф.	H	770'	0	NE	Custer	n			
1	. 11	790'	0	NE	Logan	Test holes generally are			
6	**	580'	Ó	NE	Lincoln	drilled 20 to 30 feet into the	• •		
	•					Brule Fm., which is the base of			

### INDIVIDUAL DRILLHOLES

Hole name or number	Depth	Final diam.	Cored intervals	State	Lat	Long	Generalized stratigraphy		Principal objectives		Cost	Start <u>Date</u>	Finish Date
34 HP 78	725'	8"	None	NE	41054.421	100016.091	Same as above		Same as above		\$2300	10/18/78	10/19/78
35 HP 78	8501	8"	**	NE	41055.031	100049.25	H	•	W	•	\$2660	10/23/78	10/25/78
36 HP 78	770'	5"	n	NE	42002.031	100049.01	11	•	#		\$2305	10/30/78	11/1/78
37 HP 78	710'	Ų»	#	NE	41028.17	100042.50	Ħ	•		•	\$2280	11/14/78	11/15/78
38 HP 79	740'	Ŋн	**	NE	41043.051	100046.121	17		**		\$2340	3/13/79	3/14/79
39 HP 79	870'	. 5-1/2*		NE	41034.37	100046.331	n		•		\$2715	3/27/79	3/28/79
40 HP 79	825 '	5-1/2		NE	41035.151	100018.281	n		**		\$2575	4/3/79	4/4/79
41 HP 79	1070'	5-1/2"	* **	NE	41018.59	101027.57'	**				\$4900	4/23/79	4/25/79
42 HP 79	580'	5"	*	NE	42014.59	102025.491	н		17		\$1810	4/30/79	5/1/79
43 HP 79	8901	5"	17	NE	42021.141	102003.271	Ħ		n		\$2775	5/2/79	5/3/79
44 HP 79	740'	4-5/8"	• •	NE	42012.221	102014.23	n		n		\$2635	5/7/79	5/8/79
45 HP 79	830'	5-7/8"		NE	42003.141	101054.58			<b>n</b> .		\$2980	5/14/79	5/15/79
46 HP 79	8951	5-3/4"		NE	42011.37	101044.05					\$2790	5/22/79	5/23/79
47 HP 79	900'	4-5/8		NE	42001.48	101024.27	n		Ħ		\$2810	5/30/79	5/31/79

PROGRAM: Logan County Water Resources

DIVISION: WRD

DISTRICT: North Dakota

CONTACT: R. L. Klausing, Bismark, ND DATE: 8/27/79

### GROUPS OF DRILLHOLES

Number of holes	Final diam.	Average depth	core	Loca State	county	Generalized stratigraphy	Principal <u>objectives</u>	Cost	Other information
58	181/4"	330'	0	ND	Logan	Glacial drift	Aquifer delineation		Drilling not completed yet.

CONTACT: M. G. Croft, Bismark, ND

DATE: 5/7/79

DISTRICT: North Dakota

DIVISION: WRD

PROGRAM: McKenzie County Water Resources

GROUPS OF	DRILLHO	OLES	•											*.
Number of holes	Final diam.	Average depth	\$ core	Loca State	tion <u>County</u>	Generalized stratigraphy		Principal objectives	<u> </u>	·	Cost	Other infor	mation	
20	1&1/4"	100'		ND	McKenzie	Glacial drift		Stratigra	ohy		\$3000			- ·
INDIVIDUA	L DRILLI	HOLES						,				•	•	
Hole name or number		Fi Depth di	nal am. <u>i</u>	Cored ntervals	State Lat	Long	Generalized stratigraphy		Principal objectives		Cos	<u>t</u>	Start <u>Date</u>	Finish Date
1 .		1950' 4	n .		ND	McKenzie	Fort Union For	mation	Water Supply		\$30,0	000		.,
PROGRAM:	Bottine	au-Rolett	e Coun	ties Water	Resources	DIVISION: WRD	DISTRICT: Nor	th Dakota	CONTACT: C. A. Arn	strong,	Bismark,	ND	DATE:	8/29/7
GROUPS OF	DRILLHO	OLES	·		·									
Number of holes	Final diam.	Average depth	core	Loca <u>State</u>	tion County	Generalized stratigraphy		Principal objectives	<u>.</u>		Cost	Other inform	nation	
90 <b>4</b>	.5-4.75	2001		ND	Bottineau Rolette	Glacial drift Tertiary Cretaceous		Delineate aquifers	glacial and bedrock	<b>.</b>	\$50,000			
PROGRAM:	Rattles	nake Butt	e Hydr	ology ND79	-085 D	IVISION: WRD DI	ISTRICT: North Dal	kota	CONTACT: W. F	. Horak	, Bismarc	k, ND	DATE:	8/27/7
GROUPS OF	DRILLHO	OLES				·					-		• • •	
Number of holes	Final diam.	Average depth	core	Loca State	tion County	Generalized stratigraphy		Principal objectives	<u>!</u>		Cost	Other inform	nation	
<b>25</b>	5"	325'	0 .	ND	Stark	Fort Union Forma (Paleocene) Sentinel Butte a Tongue River Mem	and	obtain hy	geologic framework irologic information llow aquifers.		\$25,000	Total	of 8,100	ft.

PROGRAM: Wibaux-Beach Hydrology ND78-082

DIVISION: WRD

DISTRICT: North Dakota

CONTACT: W. F. Horak, Bismarck, ND

DATE: 8/27/7

GROUPS	OF	DRIL	LHOI	LES

Number of holes	Final diam.	Average depth	core	Loca State	tion County	Generalized stratigraphy	Principal objectives	Cost	Other information
48	5"	274'	0.2	ND (	Golden Valley Wibaux	Fort Union Formation (Paleocene) Tongue River and Ludlow Members	Establish geologic framework and obtain groundwater hydrologic information for major shallow aquifers.	\$45,000	Total of 13,100 ft.
PROGRAM:	High Pl	ains RASA	. •	DIVISION:	WRD	DISTRICT: South Dakota	CONTACT: H. L. Case, III, Rap	ld City, S	DATE: 8/24/79
GROUPS OF	DRILLH	OLES			•				
Number of holes	Final diam.	Average depth	core	Loca State	tion County	Generalized stratigraphy	Principal objectives	Cost	Other <u>information</u>
13	5"	400	0	SD	Shannon Bennett Washabaugh	Ogallala FM-unconsolidated sandy gravels, clay	Determine base of high plains aquifer system in So. Dakota	\$18,373	
					Todd Tripp	Arikaree FM	Obtain water levels	· ·	
PROGRAM:	•			DIVISION:	WRD	DISTRICT: Texas	CONTACT: I. D. Yost, Austin,	rx	DATE: 8/29/79
GROUPS O	FDRILLH	OLES			*				
Number of holes	Final	Average depth	core	Loca <u>State</u>	tion County	Generalized stratigraphy	Principal objectives	Cost	Other <u>information</u>
20	6&3/47	415'	30	<b>TX</b>	Carson Crosby Dallam Floyd Gaines Hansford Hartley Hemphill Hutchinson Lipscomb Lynn Moore Ochiltree Potter	Ogallala	Describe hydraulic characteristics of Ogallala.	\$145,000	

PROGRAM:	Hydrology of Fe	rron Ss DIVI	SION: WRD	DISTRICT: Utah	CONT	ACT: G. C. Lines, Salt	Lake City, UT	DATE: 8/27/79
INDIVIDUAL	L DRILLHOLES		•		•			
Hole name or number 1-1 1-2 1-3 1-4 2-1 2-3 2-4	Depth d	inal Cored iam. intervals &1/2" 0 " " " " " " " " " " " " " " " " "	State Lat UT 38°52' UT 38°52' UT 38°53' UT 38°50' UT 38°50' UT 38°50' UT 38°51'	24" 111°14'26" 00" 111°15'37" 26" 111°16'08" 35" 111°17'18"	Generalized stratigraphy Ferron Sandstone Member of Mancos Shale was drilled on all holes. Blue Gate Member of Mancos was also drilled at sites 1-1, 1-2, 1-3, 1-4, 2-1.	Principal objectives Observation well " Hydrologic testing " " " " " "	Cost \$11220 \$5695 \$15920 \$19670 \$19874 \$15199 \$16460	Start Finish  Date Date 11/7/78 11/9/78 11/9/78 11/10/78 11/21/78 11/29/78 12/4/78 12/13/78 11/20/78 11/27/78 11/28/78 11/29/78 12/6/78 12/13/78
PROGRAM:		DIVISIO	N: WRD	DISTRICT: Wyoming	CONT	ACT: James R. Marie, C	heyenne, WY	DATE: 8/23/79
GROUPS OF	DRILLHOLES							
Number of holes	Final Average diam. depth	\$ Lo core State	cation County	Generalized stratigraphy	Principal <u>objective</u>			her formation
24	481/2 <sup>m</sup> 50°	o wy	Platte	Sand & gravel "Té		Sat. thickness and rel fluctuation	\$4800	
INDIVIDUAL	L DRILLHOLES	•				·	ings in the second seco	
Hole name or number	Depth		red rvals State	Lat Long	Generalized stratigraphy	Principal objectives	Cost	Start Finish Date Date
<u></u> ·	4001	747/8" 0	WY 4:	2006.13' 105002.4		Observation well	\$2700	Not yet drilled
		0" to 250' 0	WY 4	2007.181 104055.40		11	\$4100	5/14/79 5/15/79
	160'	&1/2" to 760' 7&7/8" 0	WY 4:	2047.10' 104019.3	8&1/2-760 sandstone 0 0-160 sandstone	19 ys	\$1200	5/20/79 5/20/79
PROGRAM: C	Coal Hydrology,	AL 76-041 DI	VISION: WRD	DISTRICT: Alabama	CONT	ACT: W. J. Powell, Uni	versity, AL	DATE: 9/5/79
	DRILLHOLES		•			e e e		
	Final Average diam. depth	\$ Lo	cation County	Generalized stratigraphy	Principal <u>objective</u>			her formation
10	2" 81	O AL	Tuscaloosa	Cretaceous sand, clay.	gravel and Wells for	soil moisture probes.		gured with USGS

PROGRAM: FL 195	DÍVISION: WRD	DISTRICT: Florida	CONTACT: Michael C. Yurewicz	, Tallahasse	e, FL DATE:	8/28/79
GROUPS OF DRILLHOLES		·				
Number Final Average \$ of holes diam. depth core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information	
5 or 6 4" 60' 0	FL Leon	Oligocene Limestone	Quality of water samples	\$2500	Contract	
PROGRAM: FL 139, 294	DIVISION: WRD	DISTRICT: Florida	CONTACT: Henry Trapp, Jr., Ta	allahassee,	FL DATE:	4/30/79
GROUPS OF DRILLHOLES						
Number Final Average \$ of holes diam. depth core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information	
4 2* 400' O	FL Escambia	Tertiary sand	Delineate water bearing zones, determine water levels, water quality	\$6400	Contract	
PROGRAM: FL 282	DIVISION: WRD	DISTRICT: Florida	CONTACT: Larry R. Hayes, Tall	lahassee, FL	DATE:	4/30/79
GROUPS OF DRILLHOLES						
Number Final Average \$ of holes diam. depth core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information	
5 6" 150' 0 11 4" 150' 0 2 4" 1500' 1 2 6" 1000' 0	FL Okaloosa FL Okaloosa FL Okaloosa FL Walton	Sand and gravel Sand and gravel Tertiary Tertiary	Delineate water-bearing zones, and water quality and heads.	\$5000 \$12000 \$28000 \$8000	Cooperator Cooperator Cooperator Cooperator	
INDIVIDUAL DRILLHOLES			•		· • • • • • • • • • • • • • • • • • • •	
Hole name Final or number Depth diam. i	Cored ntervals State Lat	Generalized Long stratigraphy	Principal objectives	Cos	Start <u>Date</u>	Finish Date
8	Bucatunna FL 30 <sup>0</sup> 30' Ind lower Toridan	13" 86 <sup>0</sup> 35'16" Tertiary sand, and limestone	clay Delineate water-bearing zones, and water quality and heads.		00 5/7/79	5/14/79
Field 2 1500' 4" E	Bucatunna FL 30 <sup>0</sup> 3म् । ind lower 'loridan	41" 86 <sup>0</sup> 26'39" Tertiary sand, and limestone			00 5/14/79	5/21/79

PROGRAM:	FL 307			DIVISION:	WRD	. D.	ISTRICT: Florida	ı		CONT	ACT: Harold C. Matte	aw, Jr.,	Tallaha	ssee, FL DATE	: 8/24/79
GROUPS O	F DRILL	HOLES													~
Number of holes	Final	Average depth	core	Loca State	tion County		eneralized tratigraphy			Principal objectives		. <u>C</u>	ost	Other information	
4	2" 2"	10' 10'	100 100	FL FL	Liberty Gulf		urficial sand urficial sand		•	Water tab	le-surface water ection.		1000 1000	In-house.	
PROGRAM:		Resources ier Count		DIVISION:	WRD	. <b>D</b> .	ISTRICT: Florida	l		CONT	ACT: F. A. Watkins,	Jr., For	t Meyers	, FL DATE	: 8/23/79
GROUPS OF	F DRILL	HOLES			•		•								
Number of holes	Final		core	Loca State	tion County		eneralized tratigraphy	·		Principal objective:		<u>c</u>	ost	Other information	
10	2"	20 '	0	FL	Lee	Sa	and			Water tab water sam	le levels and qualit ples	y of \$	1000	In-house	
INDIVIDU	AL DRIL	LHOLES							•		. •		٠		•
Hole name	_		lnal lam. j	Cored intervals	<u>State</u>	Lat	Long	Genera strati	lized Igraphy		Principal objectives		Cos	Start <u>Date</u>	Finish Date
L-2901		652' 6"	to 4"	0	FL 26	5043+09#	81040'51"	Sand,	clay,	limestone	Pilot hole for in well, well cutting logs		\$31° gic	72 11/21/78	Plugged
L-3224			<del>կ</del> ո	0		5043109#	81040'51"	Sand,	clay,	limestone	Observation well		\$42		4/13/79
L-3225		620' 10	-	0		043109"	81040'51"	H	**	87 17	Injection well		\$240		3/23/79
C-578 C-577			i i i	0		026 ' 40" 018 ' 41"	81°31'01" 81°38'32"		"	88	Hydrogeology-drill Hydrogeology-drill				1/16/79 1/15/79
PROGRAM:				DIVISION:	WRD	Di	ISTRICT: Florida	ı		CONT	ACT: R. L. Knutilla,	Tampa,	FL	DATE	: 8/27/79
GROUPS O	F DRILL	HOLES									•	•			
Number of holes	Final	Average depth	core	Loca State	tion County		eneralized cratigraphy			Principal objectives		<u>C</u>	ost	Other information	
73	2"	6'	0	FL	Pinella	ıs Qı	uaternary			Ground wa	ter monitoring	\$19	500	In-house	

PROGRAM:

DIVISION: WRD

DISTRICT: Florida

CONTACT: E. C. Hayes, Jacksonville, FL

DATE: 8/28/79

## GROUPS OF DRILLHOLES

Number of holes	Final	Average depth		Loca State	County	Generalized stratigraphy	Principal objectives	Cost	Other information
1	6"	21021	sampled at 10'	FL	Nassau	Sand-shell-clay-limestone- sandstone	Observation well	\$110,000	Cooperator
. 3	Su fiu		intervals	FL FL	Duval	Sand, shell, clay	Study geology of shallow aquifer	\$500 each	H Combrack
6	2"	77' 32'	 #	FL	Duval Duval	tr 10 00	n .	\$100 each	Contract In-house

## INDIVIDUAL DRILLHOLES

Hole name or number	Depth	Final	Cored intervals	State	Lat	Long	Generalized stratigraphy	Principal objectives	Cost	Start <u>Date</u>	Finish <u>Date</u>
Nassau Test Well	2102'	6"		FL FL	30°39'58"	81°28'04"	Sand-shell-clay- limestone-sandstone	Observation well	\$110,000	11/8/78	3/1/79
M-5	77'	3"	Sampled	FL	300231301	81°24"00'	Unconsolidated sand,	Study shallow aquifer	\$500	3/19/79	3/19/79
M-7	ħħ.	ħπ	at 10'	FL		n	shell, and clay	geology and hydrology	11	3/27/79	3/27/79
M-8	55'	Дm	intervals	FL	**	#	и и п	n		11	**
M-10	33'	3"	. "	FL	n	11	H 1 H 1	n	'n	3/28/79	3/28/79

PROGRAM:

DIVISION: WRD

DISTRICT: Florida

CONTACT: Albert M. LaSala, Jr., Miami, FL

DATE: 8/31/79

## GROUPS OF DRILLHOLES

Number	Final	Average	*	Loca	ition	Generalized	Principal		Other
of holes	diam.	depth	core	State	County	stratigraphy	<u>objectives</u>	Cost	information
12	2"	200'		FL	Dade	Sand, sandstone, limestone	Delineate lithology and water quality	\$24000	In-house
5	2-4"	50'	100	FL	Dade		, it	<b>\$</b> 4500	Ħ
15	2"	75'	65	FL	Broward	Sand, sandstone	Water quality monitoring	\$11250	
Ŋ	4n	250'	40	FL	Hendry	Sand, clay, limestone	Delineate lithology	\$10000	
30	2"	200'		FL	Palm Beach	Sand, sandstone, limestone	Lithology	\$88000	Cooperator
22	2"	150'		FL	Palm Beach	n	Water quality	\$33000	In-house
9	fги	150'		FL	Palm Beach	H	Aquifer testing	\$20000	Contract
10	ft a	100'		FL	St. Lucie	. <b>11</b>	H	\$30000	<b>#</b>

			•	<u> 12</u>	•			
PROGRÁM:	•	DIVISION: WRD	DISTRICT: Ge	orgia	CONTACT: H. E. Gill, Dora	ville, GA	DATE:	8/28/79
GROUPS OF DRILL	LHOLES						<b>!</b>	
Number Final		Location State Cour	Generalized nty stratigraphy	•	Principal objectives	Cost	Other information	
10 4" or 6"	100-200'		eral in Upper Eocene gherty	· · · · · · · · · · · · · · · · · · ·	Hydrology of Dougherty Plain	\$10,000	Drilling by cor	itract
	•	, riai						
NDIVIDUAL DRIL	LHOLES							
iole name or number	Final Depth diam.	Cored intervals State	<u>Lat</u> <u>Long</u>	Generalized stratigraphy	Principal objectives	Cos	Start t <u>Date</u>	Finish <u>Date</u>
cala No. 2 @ Miller cala No. 3	105 ፡ ዛ ፡	GA	31035151" 84004140	" Upper Eocene	Hydrology of Albany	area \$1	,000 4/79	4/79
Miller SGS TW 10	105' 4" 1347' 6"	GA GA	31°36'09" 84°04'35 31°35'34" 84°10'30		- Upper #		,000 4/79 ,000 9/78	4/79 12/78
PROGRAM:		DIVISION: WRD	DISTRICT: Ke	ntucky	CONTACT: Philip A. Emery,	Louisville, KY	DATE:	8/23/7
ROUPS OF DRILL	HOLES			•				
Number Final final diam.		Location State Coun	Generalized aty stratigraphy		Principal objectives	Cost	Other information	
14 4" 18 181/2	50' 2" 100'		Ingston Glacial outw Terson	ash - alluvium	Lithology - water levels	\$800ea. \$600ea.	Cooperator In-house	
ROGRAM: Atlant Plain	ic Coastal Waste Storage	DIVISION: WRD	DISTRICT: No	rth Carolina	CONTACT: P. M. Brown, Rale	eigh, NC	DATE:	8/28/79
ROUPS OF DRILL	HOLES			•			erio	
Number Final f holes diam.	_	Location State Coun	Generalized aty stratigraphy		Principal objectives	Cost	Other information	
7 2"	140' 90		ler Cenozoic - M Hanover nswick	esozoic contacts	Structure control	\$8,200	USGS equipment March 16-April 1979	10,

PROGRAM:				DIVISION	: WRD	DISTRICT: Caribbean	CONTACT: James E. Heisel,	San Juan, PR	DATE	: 5/9/79
GROUPS OF	F DRILLI	OLES							•	
Number of holes	Final	Average depth	\$ coré	Loca State	ation County	Generalized stratigraphy	Principal objectives	Cost	Other information	
10	4"	100'	20	PR	Vega Baja	Alluvium over limestone	Exploratory-observation wells	\$2000	Cooperator	. •
PROGRAM:		ogy Carbor sDandri		DIVISION	WRD	DISTRICT: Tennessee	CONTACT: Pat Hollyday, Nas	hville, TN	DATE:	8/22/7
GROUPS OF	FDRILL	IOLES		•						·
Number of holes	Final diam.	Average depth	core	Loca State	tion County	Generalized stratigraphy	Principal <u>objectives</u>	Cost	Other information	
7	2 @ 8" 3 @ 6-1/4 2 back	m	0	TN	Jefferson	Cambro Ordovician Knox Dolomite	Hydrologic Investigation - test hole	\$17000	Contracted by cooperator, Town of Dandridge	
	fille								Danut Tuge	
PROGRAM:		*.		DIVISION	: WRD	REGION: Northeast	CONTACT: John A. Baker, Re	ston, VA	DATE	: 5/4/79
GROUPS OF	DRILLH	IOLES			•					*
Number of holes	Final	Average depth	core	Loca State	County	Generalized stratigraphy	Principal objectives	Cost	Other information	
18	<b>h</b> m	280'	0	MN	Big Stone	Drift & Cretaceous Shale	Water level, quality of water, Transmissivity & Storage	\$12600	10/1-30/78	
5 -	##	90'	0	MN	Hennepin	Drift & Platteville Limestone	coefficient Water level, quality of water, stratigraphy	\$5700	1/1-4/15/79	
2	5"	60' 80'	100 25	MN MN	Hennepin Hennepin	Drift "	# #	\$2300 included above	10/1-30/78 'e	
25 20	ДП 5 п	70' 80'	0 90	MN MN	Hennepin Hennepin	Drift & upper bedrock	H H	\$37500 \$30000	6/15-9/30/79 7/1-9/3/79	
10 12 4	5 # #	150' 200' 50'	0	MN MN IN	Ottertail Beltrami Madison	Drift Drift & peat Glacial drift or outwash	" & T&S " " Water levels	\$8000 \$12000 \$1000	9/1-30/79 8/1-9/30/79 10/2-6/78	
9 5	2" 2"	185' 30'	0	in In	Madison Koscuosko		Stratigraphy and water level Water level	\$10500 \$1300	10/30-11/9/78 10/10-13/78	*

GROUPS OF DRILL	HOLES	(conti	l nued)

Number of holes	Final diam.	Average depth	core	Loca State	tion <u>County</u>	Generalized stratigraphy		Principal objectives	Cost	Other information
25	2"	60'	0	IN ,	Newton & . Jasper	Glacial drift or	outwash	Stratigraphy and water level	\$2900	10/16-27/78
16	2"	185'	0	IN	Northwest Elkhart		•	Stratigraphy, water level, and quality of water	\$17600	11/3-12/8/78
2 .	2"	160'	0	IN		n		Sed. sample	\$2000	11/14-15/78
5	2"	40'	0	IN	. 99	. и	٠	Test hole quality of water	\$1200	4/25-27/78
9	2"	601	0	IN	Knox	17		Quality of water-CI	\$1900	11/20-12/1/78
20	2"	50'	. 0	IN	Northern Porter	. "		Water level	\$3700	8/6-30/79
88	Ħ#	160'	0	IN	n ·			Stratigraphy, water level,	\$110000	4/30~8/1/79
90	2"	75'	0	IN .	Morgan & Johnson	, <b>11</b>		quality of water	\$25000	4/30-9/30/79
PROGRAM:				DIVISION:	WRD	REGION: Northeast		CONTACT: Helgesen - John A.	Baker, Resto	on, VA DATE: 5/4/79
GROUPS OF	DRILLH	OLES								
Number	Final		*	1	tion	Generalized		Principal	,	Other
of holes	diam.	Average depth	core	State	County	stratigraphy	•	objectives	Cost	<u>information</u>
7 10	6" 4"	97' 50'	0 0	OH OH	Guernsey Vinton	Shale, sandstone, Sandstone, shale,		Observation well water level Quality of water, water level	\$7200 \$3300	Drilled 10/20-11/16/78 Drilled 11/15-12/15/78
INDIVIDUA	L DRILL	HOLES		•						
Hole name or number			nal <u>am</u> . <u>1</u> 1	Cored ntervals	State Lat	Long	Generalized stratigraphy	Principal objectives	Cos	Start Finish t Date Date
GU-200		79' 16	#	0 .	OH 39°58 5	6" 81°29'52"	Shale, sandsto	one, coal Test pumping	\$350	0 11/16/78 11/24/78
PROGRAM:				DIVISION:	WRD	REGION: Northeast		CONTACT: John A. Baker, Res	ton, VA	DATE: 5/4/79
GROUPS OF	DRILLH	IOLES								
Number of holes	Final diam.	Average depth	core	Loca <u>State</u>	tion County	Generalized stratigraphy		Principal objectives	Cost	Other information
26	2"	22-77'	10	CT	Litchfield New Haven	Glacial outwash		Water level, stratigraphy	\$7800	
	2"	70'	20	CT	New London New London			_	\$9000	

Number	Final	Average	\$		ition	Generalized.		Principal		Other
of holes	diam.	depth	core	State	County	stratigraphy		<u>objectives</u>	Cost	information
5	6"	125'	0	MI	Cheboygan	Glacial		Lithologic & hydrologic	\$22000 to	tal
					Hillsdale	**		information	•	
					Monroe	Glacial & bedrock			• .•	
		•			Otsego	и и	•			
87	181/4-6	5" 125'	0	MI	Arenac	и и		Stratigraphy, water level, QN	\$127500 to	tal
					Iosco	Glacial		Ħ		
				•	Leelanau	m .				
					Lake	**				•
					Marquette	*		. #		
10	ħй	40'	4	IL	Bureaw	H .		Stratigraphy, water level,	\$10000	Drilling 7/1-30/79
4-6	4-6"	200'	0	IL '	Cook	Till/Silurian dol.		lithology, hydrologic charact	er- \$10000	
1	Ŋ#	1031'	0 -	MD	Kent	Atl. Coastal Plain		Stratigraphy, water level	\$60000	Drilled 10/30-11/23/78
_		5,_	•			sed. to basement			<b>V</b>	
1	Ŋn	1672'	0	MD	Kent	, <b>n</b>		n	\$22000	8/9-12/12/78
1	ЦW	2185'	0	MD	Kent	tr .		•	\$22300	12/20/77-11/20/78
1	6"	188'	0	MD	Kent	Coastal Plain sed.		Water level, stratigraphy	\$2200	12/20/77-11/20/78
1	Цu	617'	0	MD	St. Mary's	"		H	\$4600	10/19-20/78
. 1	, gr	587 '	0	MD	St. Mary's	Ħ		н .	\$4000	10/24-26/78
1	Ŋп	5981	0	MD	St. Mary's	n '		<b>n</b> .	\$3500	10/16-18/78
1	ħп	698'	0	MD	Calvert	n ·			\$6100	10/5-11/78
1	ħи	577'	0	MD	Calvert			· •	\$4200	10/2-4/78
. 3	8"	680'	0	MD	Anne	11		· • • • • • • • • • • • • • • • • • • •	7	Drilling in progress
		440			Arunel			•		
-		120'					•	, .		
. 5	6"	150-500	0	MD	Calvert	"		· •	·	Contracts out on bid
					St. Mary's				1	
•					Anne					
		-			Arunez	•				
1	6"	1000'	0	MD	Montgomery	Triassic rocks		Stratigraphy, yield water lev		Contracts out on bid
. 1	2"	330'	0	DE	Sussex	Coastal Plain sed.		Multi head obs. well	<b>\$</b> 5200	10/15-16/78
										<u> </u>

PROGRAM: California Desert Study DIVISION: Conservation CONTACT: Jack Crowley, Menlo Park, CA

DATE: 5/24/79

# INDIVIDUAL DRILLHOLES

Hole name or number	Depth	Final diam.	Cored intervals	State	Lat	Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish Date
FL 1	3351	5"	R.C.O.	CA	36015'15"	116022108"	Lacustrine sediments	Evaluation and classification		7/78	7/78
EKV-1	335 1	5"	Ħ	CA	37 006 1 36"	117042'13"		of the California Desert	•	7/78	7/78
SV-3	2301	5"	**	CA	360421351	117049 122"	•	Conservation area and for		11/78	11/78
SV-4A	315'	5"		CA	36042'01"	117047'26"	Lacustrine sediments / and chemical salts	leasable minerals	•	12/78	12/78
SV-5A	135'	5"	11	CA	360421507	117046 ' 47"	**	•		12/78	12/78

PROGRAM: California Desert Study

DIVISION: Conservation

REGION: Western

CONTACT: Roger Dockter, Menlo Park, CA

DATE: 8/22/79

INDIVIDUAL	DRILLHOLES

Hole name or number		Final	Cored intervals	State	Lat	Long	Generalized <u>stratigraphy</u>	Principal objectives		Cost	Start Date	Finish Date
K-1	515*	5"	Reverse circulation air-drill	CÅ	35019'45"	117053'01"	515' clay with thin beds of saline minerals	Saline mineral resource evaluation		\$3420	12/78	12/78
			cuttings collected at all intervals									
K-2	447.5	5"	19	CA	35019146"	117054'18"	447.5' clay	**		<b>\$</b> 3116	12/78	12/78
K-3	335'	5*	**	CA	35018122#	117053'19"	312' clay with few thin tuff ? layers 312-335 sand & clay beds	•	• .	\$1520	12/78	12/78
K-4	400'	5"	и ,	CA	35019124#	117052'23"	400' clay			\$1575	12/78	12/78
K-5	435	5*	*	CA	35°20'59"	117°52'09"	374' clay, 374-435 interbedded sand and clay. Sand contains saline brine.			\$2508	12/78	12/78

PROGRAM:

DIVISION: Conservation AREA OR OFFICE:

CONTACT: See Other Information below

DATE: 5/31/79

### GROUPS OF DRILLHOLES

								4	
Number of holes	Final diam.	Average depth	core	Loc State	ation <u>County</u>	Generalized stratigraphy	Principal objectives	Cost	Other information
2		500 <b>'</b>	. 2	CO ·			Coal evaluation—short-term lease application		USGS drill rig 750' rotary 12' coring Contact: Gary W. Stuckley
2		600'	1				Coal evaluationshort-term lease application		USGS drill rig 1200' rotary 10' coring Contact: Gary W.

\*All in Denver, CO.

# GROUPS OF DRILLHOLES (continued)

Number of holes	Final diam.	Average depth	core	Loca <u>State</u>	tion County	Generalized stratigraphy	Principal objectives	Cost	Other information
lg .		1630'	. 3	со	. Rio Blanco	Trout Creek Sandstone	Coal evaluationshort-term lease application		1 or 2 holes twinned USGS drill rig 6522' rotary
									200' coring Contact: Gary W. Stuckley*
4-5		1000'	. 0	co	Gunnison	Mesa Verde Fm.	Coal exploration to define KRCRA	•	USGS drill rig 4500' rotary Tentative
									Contact: Dave Gaskill*
7		8001	0	WY	Carbon	Hanna Fm.	Coal evaluationlease application		USGS drill rig 5800' rotary Tentative Contact: Tim Timmons*
8		1333'		. UT	San Pete Emery	Star Point Ss. & Blackhawk Fm.	Coal evaluation		10,500' rotary Contract Contact: Gene Ellis
34		1292'	6	UT	San Pete Sevier	Star Point Ss. & Blackhawk Fm.	Coal evaluation		Contract 41,060' rotary 2,815' coring Contact: Howard Albee
#All in D	enver,	co.							
PROGRAM:				DIVISION:	Conservation	OFFICE: Farmington	CONTACT: Russell Jentgen, Denv	er, CO	DATE:
GROUPS OF	DRILLH	OLES			,				
Number of holes	Final diam.	Average <u>depth</u>	core	Loca State	tion County	Generalized stratigraphy	Principal <u>objectives</u>	Cost	Other information
?		1000'	?	NM	?	Fruitland Coal	Coal data collection		Contract?

PROGRAM:

DIVISION: Conservation AREA: Northern Rocky Mtn.

CONTACT: See Other Information below

DATE: 5/31/79

## GROUPS OF DRILLHOLES

Number of holes	Final diam.	Average depth	core	Loc State	ation County	Generalized stratigraphy	Principal <u>objectives</u>	Cost	Other information
2		550'	0	WY	Campbell	·	Coal correlation		USGS drill rig 1100' rotary Contact: Ken Bowen®
2 .		600'	0	MT	Bighorn		Coal informationresource evaluation		Contract 1465' rotary Contact: Steven Volz (Montana Bureau Mines and Geology)
53		643'	4	МТ	Bighorn Rosebud		Coal correlationresource evaluation		Contract 34,750' rotary 1340' coring Contact: Robert Matson and V. Niermeier (Montana Bureau of Mines and Geology)
12	•	725'	0	WY	Converse		Coal correlationupdate KRCRA		USGS drill rig 8700' rotary Contact: Frank B. Kistner#
Ŋ		450'	0	WY	Campbell		Determine coal occurrence		USGS drill rig 1800' rotary Contact: Robert A. Katock or Frank B. Kistner®
9		425 <b>'</b>	Ħ	WY			Coal resource evaluation		3800' rotary 170' core USGS drill rig Contact: Frank B. Kistner or James D. Williams*
3		620'	0	WY	Campbell		Coal resource evaluation		USGS drill rig 1860' rotary Contact: Frank B. Kistner or Elmer M. Schell <sup>8</sup>

## GROUPS OF DRILLHOLES (continued)

Number of holes	Final	Average depth	core	Loc State	ation County	Generalized stratigraphy		Principal objectives	Cost	Other <u>information</u>
8		3401	0	WY	-	Felix, Anderson, & Wyodak beds	coal	Top and thickness of coals		USGS drill rig 2720' rotary Contact: Lee H. Jefferis or Frank B. Kistner
21		517'	.7	ND	Williams	Fort Union lignites		Establish and evaluate coal resource areas		Contract? 13980' rotary 100' coring Contact: John Spencer*
150		4201	.3	ND	Dunn Stark Billings	Fort Union Fm.		KRCRA establishment and evaluation		63,100' rotary 160' coring Contact: Michael Menge#
32		318'	.5	ND	Mountrail	Fort Union Fm.		KRCRA establishment and evaluation		10,180' coring 50' core Contact: John Spencer®
17		4781	.2	ND	Ward	Fort Union Fm.		KRCRA establishment and evaluation	•	8,140' rotary 20' core Contact: Susan M. Cook®
67		3951	.4	ND ··	Divide	Fort Union Fm.		KRCRA establishment and evaluation		26,440' rotary 100' core Contact: John M. Spencer*
77		440*	.6	ND	Williams	Fort Union Fm.	٠.	Establish and evaluate coal resource areas		Contact: John M. Spencer
31		4651	•3	ND	Ward	Fort Union Fm.		KRCRA establishment and evaluation		14,400' rotary 40' core Contract (FY-78) Contact: Susan M. Cook#
5		6241	0	ND	Mountra11	Fort Union Fm.		KRCRA establishment and evaluation	:	3120' rotary Contract (FY-78) Contact: Susan M. Cook®

\*Denver, CO.

# GROUPS OF DRILLHOLES (continued)

Number of holes	Final diam.	Average depth	\$ core	Loc. <u>Statė</u>	ation County	Generalized stratigraphy	Principal objectives	Cost	Other <u>information</u>
3		280'	0	ND	Renville	Fort Union Fm.	KRCRA establishment and evaluation		840' rotary Contract (FY-78) Contact: Susan M. Cook
62		4001	•2	MT	Roosevelt		Identification of coal beds		25,000' rotary 120' core Contact: Mary Alice Spencer <sup>®</sup> Contract
55		400		MT	McCone Prairie Dawson	Section through Tongue River Member of Ft. Union Fm.	KRCRA establishment and evaluation		20,360' rotary Contact: Herbert Wincentsen®
24		2851	0	MT	Dawson Wibaux	Fort Union Fm.	Evaluation of nominated areas and KRCRA established		6,850' rotary Contract (FY-78) Contact: Robert Matson (Montana Bureau of Mines and Geology)
46		2821	. կ	MT	Richland Wibaux Dawson	Tongue River Coals	Evaluate Sidney KRCRA		17,000' rotary 60' core Contract Contact: Robert Matson (Montana Bureau of Mines and Geology)
16		3001	7	нт	Musselshell		Establish KRCRA boundary and evaluate		6000' rotary ? coring Contract (FY-78) Contact: Robert Matson (Montana Bureau of Mines and Geology)
62		407'	.5	МТ	Roosevelt	Fort Union Fm.	Coal evaluation		25,000° rotary 120° core Contact: Mary Alice Spencer® Contract

\*Denver, CO.

PROGRAM: Black Warrior Coal Basin, Phase I DIVISION: Conservation REGION: Eastern

CONTACT: Orrin Gilbert, Washington, D.C.

DATE: 4/30/79

### INDIVIDUAL DRILLHOLES

Hole name or number		inal iam.	Cored intervals	State	Section, Township, & Range	Generalized stratigraphy	Principal	Coat	Start Finish
Or munuer	Depth di	T ann.	Tilder Valo	State	Township, a name	Stratigraphy .	<u>objectives</u>	Cost	Date Date
1	2075' 18	&7/8"	100\$	AL	14-19S, 9W	Pottsville Formation	Purpose is to assess coal	\$18675	Exact order of
2	20951	**	Ħ	<b>AL</b>	35-18S, 9W	(Pennsylvanian):	resources on Federal lands	\$18855	drilling not
3	2130'	Ħ	**	AĻ	24-18S, 9W	alternating shales,	(Federal ownership of coal	\$19170	established yet.
4	1725'	11 -		AL.	5-18S, 8W	sandstones, and coal	resources). For pre-lease	\$15525	Drilling to com-
5	20051	11		AL	32-18S, 9W	(minor limestones).	sale evaluation. Mary Lee	\$18045	mence on or about
6	20301	**	Ħ	AL .	24-18S, 10W	Ħ	coal bed	\$18270	May 21, 1979, and
7	1750'	19	M·	· AL	6-18s, 9w	m <sub>_</sub>	H	\$15750	to be completed
8	16001	**	. #	AL	17-17S, 9W	n	Ħ	\$14400	mid-August, 1979.
9 .	1505'	**	n	AL	9-17S, 10W	H	н	\$13545	
10	12001	**	n	AL	22-16S, 10W	<b>H</b>	n n	\$10800	
11	1310'	**	n	AL	32-16S, 9W	TF TF	Ħ	\$11790	•
12	1280'	**	n	ÀL	12-16S, 9W	, m	Ħ	\$11520	•
13	1270'	**	*	AL.	17-16S, 9W	Ħ	Ħ	\$11430	
14	810'	17	n	AL	25-15S, 10W	11	•	\$7290	
15	700'	n	77	AL	9-158, 10W	n	n	\$6300	
16	670'	11	n	AL	36-14S, 10W	, <b>H</b>	n	\$6030	
17	5501	Ħ	N	AL	13-14S, 10W	n	Mary Lee and Black Creek	\$4950	
18	660'	Ħ	*	AL	28-14S, 10W	• <b>H</b>	H .	\$5940	
19	620'	11	17	AL	23-14S, 11W	H	n	\$5580	•
20	630'	**	11	AL	5-14S, 10W	n ·	<b>H</b>	\$5670	
21	425 '	11	*	AL	33-13S, 11W	Ħ	n	\$3825	
22	500'	n	11	AL	36-12S, 11W	Ħ	W	\$4500	
23	610'	Ħ	Ħ	AL	21-12S, 10W	n	n	\$5490	•
23	010	•		-	21-120, 10W	•		<b>₩</b> J730	

PROGRAM: National Petroleum Reserve in Alaska

DIVISION: Director's Office

CONTACT: R. D. Carter, Menlo Park, CA

DATE: 8/22/79

### INDIVIDUAL DRILLHOLES

Hole name or number	Depth	Final	Cored intervals	State	<u>Lat</u>	Long	Generalized stratigraphy	Principal objectives	Cost	Start <u>Date</u>	Finish Date
South Meade #1	9945'	8&1/2"	3010-3020.5 4010-4020 4950-4961 5992-6002.5 7500-7504 8489-8519 8819-8873 9040-9059 9305-9328		70°36'54"	156°53'24"	Quat Tertiary Cretaceous Jurassic Triassic Permian Miss-Penn (Carb.) Pre-Miss. basement	Test well		2/1/78	1/22/79

# INDIVIDUAL DRILLHOLES (continued)

Hole name or number		<u>Depth</u>	Final diam.	Cored intervals	State	Lat	Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish Date
Inigok #1		20102'	6&1/4"	2632-2662 3072-3082 4206-4216 5000-5010 7054-7064 8210-8240	AK	70000'18"	153 <sup>0</sup> 05'57" .	Quat Tertiary Cretaceous Jurassic Triassic Permo-Triassic Miss-Penn (Carb.)	Test well		6/7/78	5/22/79
	٠.			8842-8852 9338-9348				Mississippian				
				9448-9458 10295-10305 10998-11008								
,	4	•		11704-11714 12273-12283 12500-12530								
	,	:		12705-12735 13480-13510 13831-13880		,						
				14020-14066 15185-15215								
	٠			16185-16198 17053-17083 19360-19372								
Tunalik #1		15408'	6&1/4"	20091-20102 2651-2654' 3280-3308 3820-3830	AK	70 <sup>0</sup> 12'22"	161004109#	Quat Tertiary Cretaceous Jurassic	Test well		11/10/78	
				5552-5562 6504-6514 7870-7880 8782-8810				Triassic Permo-Triassic MissPenn. (Carb.) Pre-Devonian basement	•			
				10472-10502 10671-10702 10910-10940 11672-11694	,		·					
•		•		12567-12597								•

# INDIVIDUAL DRILLHOLES (continued)

Hole name or number	Depth	Final	Cored intervals	State	Lat	Long	Generalized stratigraphy	Principal objectives		Cost	Start <u>Date</u>	Finish Date
Peard #1	10225'	8&1/2"	3034.5-3065	AK	70042156"	159000'03"	Quat Tertiary	Test well			1/26/79	4/13/79
			4278-4294			,	Cretaceous	:				
			5409-5421			•	Jurassic					
			5906-5916.4				Triassic					•
			6119-6129.4 6403-6413		•		Permo-Triassic Permian			-		
			7837-7868				Pre-Devonian basement					
			8275-8289.5				· · · · · · · · · · · · · · · · · · ·					
•	-		8451-8481				•	* *		-		
			8977-9008		* .		•		•			
4	-	*	9490-9520				·	, `				
	* *		10215-10225							,		
East Simpson #1	7739'	8&1/2"	2674.5-2685	AK	70 <sup>0</sup> 55'02"	154036'43"	Quat Tertiary	Test well		· .	2/19/79	4/10/79
			5120-5130				Cretaceous					•
			6810-6870				Jurassic				1.1	1 -
			6898-6922				Triassic					
		•	7426-7436				Permo-Triassic					
			7564-7593				MissPenn. (Carb.)		•			
		•	7729-7739				Mississippian Pre-Devonian basement					
Ikpikpuk #1	14210'	7" liner	2930-29601	AK	70027 20"	154 <sup>0</sup> 19'53"	Quat Tertiary	Test well			11/28/78	Sus-
TKDTKDOK #1	14210	9528-14208		ALK	10.51.50.	104-19-00	Cretaceous	lear well		•	11/20/10	pended
•		(suspended					Jurassic					4/17/79
		status)	7132-7143		•		Triassic					(W111
		,	7368-7378				Permo-Triassic					re-enter)
			7491-7501				MissPenn. (Carb.)	•				•
	,		10270-10300		•		Devonian (?)	•				1.00
Ť	•		10619-10649			•	Pre-Devonian basement					
		•	10815-10842			·				•		
	•		11108-11135				•	•				•
.'			11718-11733									
	155001	001.40	12743-12753	4.00	£90001058		G	M4 33		1.0	6 (31 /70	
Lisburne #1	15500'	8&1/2*	1554-1558.7	AK	68029105"	155041 '33"	Cretaceous	Test well		•	6/11/79	
	proposed		2075-2090.5			•	MissPenn. (Carb.)					
			2990-3000 3900-3910				Pre-Miss. (?)				;	
		•	5340-5356				116-11133.(1)		•			
			6215-6225									
J. W. Dalton #1	8800	841/2"	3500-3530	AK	70055114"	153008'15"	Tertiary	Test well		200	5/7/79	8/1/79
	proposed		4667-4697		'	·	Cretaceous					· ·
	• •		5603-5633				Jurassic				•	
	,		6585-6615				Triassic				*	•
•		. •	7524-7534			• *	Permo-Triassic					
		•	7967-8021			*	Permian				•	•

### INDIVIDUAL DRILLHOLES (continued)

Hole name or number	Depth	Final diam.	Cored <u>intervals State</u> L	at Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish Date
			8021-8081 8081-8113 8113-8139.5		MissPenn. (Carb.) Pre-Devonian basement				
			8140-8200 8317-8345 8515-8543.5				•		
Seabee #1	15500' proposed	8&1/2"	9357-9367 5390-5402 AK 69°2	2'49" 152010'31"	Cretaceous	Test well		7/1/79	

PROGRAM: USGS Geotechnical

DIVISION: Conservation REGION: Western

63°18'N

continuous Iceland

CONTACT: Gerald Shearer, Anchorage, AK

Alteration studies Degassing studies

Thermal studies

Structure of marine volcano

DATE: 8/27/79

8/20/79

\$100,000 -7/5/79

Investigation, Beaufort Sea, 1979

200 m

#### GROUPS OF DRILLHOLES

Surtsey #1

Number of holes	Final diam.	Average depth	core	Loca State	tion County	Genera strati			Principal objectives			Cost	Other inform	nation	
16 4	fu fu	100' 300'	10-20	AK	Beaufort Sea	Silt,	sand, and g	ravel	Geotechnical pr permafrost	roperties,	depth to	\$1.8MM		Federal/ area, 197	
PROGRAM:	Geother	mal	<del></del>	DIVISION:	Geologic	BRANCH	FG&P		CONTACT:	J. G. Moore	, Menlo Pa	ark, CA	<u> </u>	DATE:	7/16/79
INDIVIDUAL	L DRILL	HOLES	•									٠			÷ *
Hole name or number			inal	Cored intervals	Country	Lat	Long	Generalized stratigraphy		Principal objectives		<u>c</u> .	ost_	Start <u>Date</u>	Finish Date

Hyaloclastitic tephra (alkali olivine basalt)

Pillowed lava at base?

20°36.5'W

PROGRAM: Geothermal

DIVISION: Geologic

BRANCH: Grant to Virginia Polytechnic Institute and State University, Blacksburg, VA

CONTACT: Lynn Glover, III, Blacksburg, VA

DATE: 8/28/79

## INDIVIDUAL DRILLHOLES

or number Depth diam.	intervals S	tate <u>Lat</u>	Long	Generalized stratigraphy	Principal objectives	Cost	Start <u>Date</u>	Finish Date
USGS 1 AQ or BQ	bottom 300 ft.	NC 34 <sup>0</sup> 34'11"	78 <sup>0</sup> 56 • 02"	Atlantic Coastal Plain and underlying crystal- line rocks of the Fountain Belt, NC	1) petrologic, chemical (?) structural, and geo- chronologic study (Rb-Sr, K-Ar, Ar-Ar, fission track of the basement samples)	7	7/79	8/79
USGS 2 AQ or BQ	bottom 300 ft.	NC		Atlantic Coastal Plain and underlying crystal- line rocks of the Fountain or Hatteras belts, NC	2) determination of heat flow			9/79

# FISCAL YEAR 1980

PROGRAM: Earthquake hazards	DIVISION: Geologic	BRANCH: Earthquake tectonics & r	risk CONTACT: J. D. Sims, Menlo Par	k, CA	DATE: 5/9/79
GROUPS OF DRILLHOLES	•			•	
Number Final Average \$ of holes diam. depth core	Location State County	Generalized . stratigraphy	Principal objectives	Cost	Other <u>information</u>
1 7.5 cm 700 m 100	CA Lake	Holocene & Pleistocene lake sediments of Clear Lake	Stratigraphy, paleoclimatic and paleolimnologic reconstruction, and geothermal & heat flow data	\$200,000	To be drilled with U.S.G.Sowned rig now being procured. Cost of rig included
					in cost estimate to left.
PROGRAM: Geothermal Studies	DIVISION: Geologic	BRANCH: Tectonophysics	CONTACT: Tom Moses, Menlo Park	, CA	DATE: 9/4/79
GROUPS OF DRILLHOLES					
Number Final Average \$ of holes diam. depth core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information
55 14 cm 150 m 0	CA All	Various	Heat flow	\$200,000	Contract drilled. Cased with nominal
	AZ OR				3.2 cm 0.D. casing. Bottom 60 m cemented.
PROGRAM: Regional Shear Wave Studies	DIVISION: Geologic	BRANCH: Ground Motion & Faulting	CONTACT: Jim Gibbs, Menlo Park	, CA	DATE: 5/30/79
GROUPS OF DRILLHOLES					
Number Final Average \$ of holes diam. depth core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information
10 4&7/8" 30 m " 40 m	CA Los Angeles AK		Shear-wave measurements	\$10,000 \$15,000	

PROGRAM:				DIVISION: Geologic	BRANCH: Eastern Environmental	CONTACT: Doug Rankin, Reston	, VA	DATE:
GROUPS OF	DRILLH	OLES		•				
Number of holes	Final diam.	Average depth	\$ core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information
5	3**	50'	75	MA	Pleistocene	Glacial tectonics		Split spoon sediment
3 2 4	11 m	500' 500' 400'	100 100 50	GA Richmond GA Heriwether VA/MD Spottsyl- vania, Stafford, Charles	Phyllites/Gneiss/Piedmont Paleoz./Qtzites/Schist/Gneiss Late Mesozoic/Early Tertiary	Examine mylonite boundaries Cenozoic fault study Stratigraphic control along Stafford Fault system		Namples Name ore
3	ħμ	500'	75	NJ Bergen	Triassic/Paleozoic/PreC	Location of Ramopo Fault		
1	ក្នុក ក្នុក	300' 200'	90 100	NJ Essex GA	Silurian/Ordovician Upper Cretaceous/Lower Tertiary	Stratigraphic test Stratigraphic test holes		
i i	4"	150'	100	VA Essex,	Middle Tertiary/lower Pleis.	Stratigraphic test		
	.*			Westmore-	•		-	. **
				land, Rich- mond				
							· .	
PROGRAM:	Hydrolo	gie drill	ing	DIVISION: Geologic/WR	BRANCH: Atlantic-Gulf of Mexico	CONTACT: J. C. Hathaway, Woo	ds Hole, MA	DATE: 4/25/79
GROUPS OF	DRILLH	OLES			•			
Number of holes	Final diam.	Average depth	core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information
12-48*	2" core diam.	2000-	100	East Coast: Atlantic Shelf	Pleistocene-Cretaceous	Locate limits of offshore fresh water aquifers	\$1.7- 5.9M	Proposed program; cost depends on size funded
PROGRAM:	Geotech	nical		DIVISION: Geol./Consv.	BRANCH: Atlantic-Gulf of Mexico	CONTACT: J. C. Hathaway, Woo	ds Hole, MA	DATE: 9/04/79
GROUPS OF	DRILLH	OLES	•					
Number of holes	Final	Average depth	core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information
6-10	2-2 <b>i</b> n	1000- 1700	100	East Coast Atlantic	Mostly Pleistocene, possibly Tertiary	Evaluate strength of sediments fo potential slumping hazard	r \$2M	Proposed program through Sandia Labs

· · · · · · · · · · · · · · · · · · ·	•			=		•
PROGRAM: Continuous Coring	DIVISION: Geologic	BRANCH: Atlantic-Gulf of Mexico	CONTACT: G. Shideler, Woods H	ole, MA	DATE:	4/25/79
GROUPS OF DRILLHOLES						
Number Final Average \$ of holes diam. depth core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information	
6 3" core 100 m 100 diam.	Northern Padre Is. & Laguna Madre area (Nueces County, TX)	Late Pleistocene/Holocene	To evaluate the stratigraphic evolution of a fluvial-estuarine-barrier island complex, and to evaluate its potential for peat/coral development.	\$100,000	Cooperative w Branch of Coa Resources. C operations wi commence in F	l oring 11
PROGRAM:	DIVISION: WRD	RECION: Western	CONTACT: E. R. Leggat, Menlo	Park, CA	DAT	E: 9/4/7
GROUPS OF DRILLHOLES						
Number Final Average \$ of holes diam. depth core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information	
5-10 8" 600' 3-5 4" 850' 0 50 2" 2500' 3 8-12" 600-1000' 35-50 2" 2800' 3-5 8" 500'	WA Kitsep HI Honolulu WA King WA Douglas-Grant WA Peud Oreille WA Island	Glacial drift Caprock-basalt Glacial drift Basalt Alluvium glacial drift Drift	Hydrologic head Observation-piezometers Hydrologic head Hydrologic head Hydrologic head Hydrologic head	\$30,000 \$110,000+ \$40,000 \$110,000 \$30,000 \$25,000	Water quality	
INDIVIDUAL DRILLHOLES						
Hole name Final or number Depth diam.	Cored ntervals State Lat	Generalized Long stratigraphy	Principal <u>objectives</u>	<u>Cos</u>	Start <u>t</u> <u>Date</u>	Finish <u>Date</u>
	00' cores CA 38 <sup>0</sup> 55.3 ' sidewall	30" 121°36' Alluvium	Stratigraphy-hydrology	<b>\$135</b> ,	000 10/79	11/79
PROGRAM: Data Collection D GROUPS OF DRILLHOLES	IVISION: WRD DISTRIC	CT: Arkansas CONTACT: A. H.	Ludwig, Little Rock, AR	DATE:	8/23/79	
Number Final Average \$ of holes diam. depth core	Location State County	Generalized stratigraphy	Principal objectives	Cost	Other information	e.
10 4" 300'	AR	Cretaceous, Tertiary, Quaternary Series	Water Resources Investigations	Unknown		

PROGRAM:				DIVISION:	WRD	DISTRICT: Louisiana	CONTACT: George T. Cardwell,	Baton Roug	e, LA DATE: 8/23/79
GROUPS O	F DRILLH	OLES							
Number of holes		Average depth	core	Locat State	ion County	Generalized stratigraphy	Principal objectives	Cost	Other information
14	•	2300'		LA	Webster Union Bossier Claiborne	Upper Cretaceous, Paleocene, Eocenesand, silt, clay, marl.	Obtain head and aquifer character istic data for regional aquifers in northern Louisiana.	•	
GROUPS O	F DRTLLH	OLES (con	it I mind		Bienville Jackson Ouachita				
<u> </u>	DRIGO	ODDO (COII	OT MAGO						
Number of holes		Average depth	core	Locat <u>State</u>	ion County	Generalized stratigraphy	Principal objectives	Cost	Other <u>information</u>
				,	Richland Natchitoches			• • • • • • • • • • • • • • • • • • • •	
1	2"	600'	0	LA	Winn Franklin East Baton Rouge	Pleistocene sand and gravel	Water-level monitor	\$1500	
	<del>`</del>	<del></del>				1			
PROGRAM:	Montana	District		DIVISION:	WRD	DISTRÎCT: Montana	CONTACT: Joe Moreland, Helen	a, MT	DATE: 8/28/79
GROUPS O	F DRILLH	OLES	-						
Number of holes		Average depth	¢ core	Locat State	ion County	Generalized stratigraphy	Principal objectives	Cost	Other information
50 6-10	ħn ħn	200' 1000'		HT HT	? ?	Sandstones and coal Sandstones and shales	Groundwater-observation wells Groundwater-observation wells	\$60,000 \$90,000	Coal hydrology Northern Great Plains Regional Aquifer
PROGRAM:		ains RASA NE 78-04		DIVISION:	WRD	DISTRICT: Nebraska	CONTACT: M. J. Ellis, Lincol	, NE	DATE: 6/26/79
GROUPS O	F DRILLH	OLES							
Number of holes	Final	Average depth	core	Locat State	ion County	Generalized stratigraphy	Principal objectives	Cost	Other information
14	4-5"	750'	0	NE	Cherry	Surficial deposits of wind-blown sand	Collection of data to determine thickness of the principal aquifer		
. 6	4-5"	800'.	0	NĖ	Sheridan	Pleistocene sand and gravel deposits	system, and to provide a basis for estimating hydraulic conductivitie	•	
2 2	4-5" 4-5"	8501 9001	0	NE NE	Hooker Grant	Miocene Ogallala Formation Oligocene Brule Formation Test holes will be drilled into upper 20-30 feet of Brule Formation	and specific yields of aquifer material		

PROGRAM:	McKenzi Resource	•	Water	DIVISION:	WRD	DISTRICT: North Dakota		CONTACT: M. G. Cr	oft, Bismark,	ND	DATE: 5/7/79
GROUPS OF	F DRILLH	OLES				·					
Number of holes	Final diam.	Average depth	core	Locat State	ion County	Generalized stratigraphy		Principal objectives		Cost	Other information
2 4 20	4# 2# 161/4#	2000' 1000' 100'		ND ND ND	McKenzie McKenzie McKenzie	Fort Union Fort Union Glacial drift		Water supply Stratigraphy Stratigraphy		\$60,000 \$10,000 \$3,000	
PROGRAM:		au-Rolett Vater Res		DIVISION:	WRD	DISTRICT: North Dakota	-	CONTACT: C. A. Ar	mstrong, Bism	ark, ND	DATE: 8/29/79
GROUPS OF	F DRILLH	OLES		•	· .						
Number of holes	Final diam.	Average depth	core	Locat State	ion <u>County</u>	Generalized stratigraphy		Principal objectives		<u>Cost</u>	Other information
100	•	2001		ND	Bottineau Rolette	Glacial drift Tertiary Cretaceous		Aquifer delineation		\$60,000	
PROGRAM:		nake Butt ND79-085	-	DIVISION:	W RD	DISTRICT: North Dakota		CONTACT: W. F. Ho	rak, Bismark,	ND	DATE: 8/27/79
GROUPS OF	F DRILLHO	OLES				•					
Number of holes	Final	Average depth	core	Locat State	ion <u>County</u>	Generalized stratigraphy		Principal objectives		Cost	Other information
20	5"	250'	0.5	ND	Stark	Fort Union Formation		Groundwater hydrology	program	\$25,000	

PROGRAM:				DIVISION:	WRD	DISTRICT: Texas	CONTACT: I. D.	. Yost, Austin, T	x ·	DATE:	8/29/79
GROUPS OF	PORILLH	OLES						•			
Number of holes	Final diam.	Average depth	\$ core	Loca State	tion County	Generalized stratigraphy	Principal objectives		Cost	Other information	
21	6&3/4"		30	TX	Andrews Armstrong Bailey Castro	Ogallala	Describe hydraulic of Ogallala.	Characteristics	\$147,000		
GROUPS OF	DRILLH	OLES (cor	iti nued	,	•	•				•	
Number of holes	Final diam.	Average depth	core	Loca State	tion County	Generalized stratigraphy	Principal objectives		Cost	Other information	
					Cochran Dawson Deaf Smith Donley Ector Gray Hale Hockley Lamb Lubbock Martin Midland Parmer Randall Swisher Terry						
PROGRAM:	FL 195			DIVISION:	WRD	DISTRICT: Florida	CONTACT: Miche	el C. Yurewicz,	Tallahasse	e, FL DATE:	8/27/79
GROUPS OF	DRILLH	OLES							٠.		
Number of holes	Final diam.	Average depth	core	Loca State	tion County	Generalized stratigraphy	Principal objectives		Cost	Other information	
21	<b>H</b> m	100'	O	FL	Leon	Oligocene Limestone	QW samples		\$12,600	Cooperator	٠.

PROGRAM:	Water   & Colli		s, Lee	DIVISION	: WRD	•	DISTRICT: Florid	la .	C	ONTACT	: F. A.	Watkins,	Jr., F	ort Me	yers,	FL	DATE:	8/23/79
GROUPS OF	DRILLI	HOLES																
Number of holes	Final	Average depth	-	Loca State	tion County	Ľ	Generalized stratigraphy		Princi object	•				Cost		)ther informati	on	
2 6	fin Fin	400 ' 400 '	0 0	FL FL	Collie Lee	er	Sand, clay, lime	stone H	Hydrog	eology				\$4000 \$15000	_	Contract. Contract.		
PROGRAM:	· · · · · · · · · · · · · · · · · · ·			DIVISION	: WRD		DISTRICT: Florid	la	C	ONTACT:	R. L.	Rnutilla	, Tampa	, PL	. •		DATE:	8/27/79
GROUPS OF	DRILLE	<u>IOLES</u>													•			
Number of holes	Final diam.	Average depth		Loca State	ation County	<u>.</u>	Generalized stratigraphy		Princi object	•				Cost		)ther nformati	on	
30 3 4 2 1	2# 6-8" 6-8" 6-8" 6-8"	40' 450' 400' 250' 700' 410'	0 0 0 0	FL FL FL FL FL FL	Pinell Pasco Hillsb Charlo Hardee Saraso	orough otte	Quaternary Tertiary " " "		Monitor n n n	r water n n n n	levels  " " " " " "		•			(n-house Cooperato ** ** **	OF.	
INDIVIDUA	L DRILL	HOLES			٠								• .		•	•		
Hole name or number			inal	Cored Intervals	State	<u>Lat</u>	Long	Generalized stratigraphy			incipal jective				Cost	Sta Dat		Finish Date
TR 10-3 TR 20-1 TR 14-3 TR 18-2 134 TR 3-2 TR 8-1		600' 400' 500' 500' 400' 600'	6" " " "	600 400 500 500 400 400 600	FL FL FL FL FL FL	27°55 28°45 28°10 28°25 7 26°50 27°35	1 820401 1 820401 1 820401 2 820201	Tertiary  " " " " " " " "		ar pr	nd deter opertie	ater lev mine hyd s of aqu by coope	raulic ifer.		?			FY79-80
PROGRAM:				DIVISION:	WRD		BRANCH:		C	ONTACT:	E. C.	Hayes, J	ack sonv	111e, I	FL		DATE:	8/28/79
GROUPS OF	DRILLI	OLES												•	٠			
Number of holes	Final <u>diam</u> .	Average depth		Loca State	tion County		Generalized stratigraphy		Princip object:					Cost		ther nformati	on.	
1	6"	2100'	0	FL	Duval		Sand-shell-clay-	limestone-	Deep of	bservat	ion wel	ls		\$170,0	000 c	ooperato	r	•
10	2"	100'	0	FL	St. Jo	hns	sandstone Sand-shell-clay		Evalua	te aqui	fer sys	tem		\$500 e	ea. C	cooperato	r	•

PROGRAM:				DIVISION:	WRD	DISTRICT: Florida	1	CONTAC	T: Albert M. La Sala, J	r., Miami,	FL DATE	E: 8/31/79
GROUPS OF	DRILLI	OLES										
Number of holes	Final	Average depth	\$ core	Loca State	tion County	Generalized stratigraphy		Principal objectives		Cost	Other information	
15	2"	200'	50	FL	Dade	Sand, sandstone,	limestone.		ithology and water	\$30,000	In-house	
20	2"	150'	.75	FL	Broward	Sand, sandstone		quality		\$30,050	#	
2	2"	200'	100	FL	Palm Beach	Sand, sandstone,	limestone	Aquifer tes	ting	\$5,000	n	
15	2"	100'	100	FL	Dade	Sand, sandstone,		Lithology		\$15,000	Cooperator	
25	2"	150'		FL	Palm Beach	Sand, sandstone,		Replacement	of observation siles	\$37,500	In-house	
		• :			Broward Dade		•					•
PROGRAM:				DIVISION:	WRD	DISTRICT: Georgia	1	CONTAC	T: H. E. Gill, Doravill	e, CA	DATI	E: 8/28/79
GROUPS OF	DRILLI	IOLES					•					٠
Number	P41				tion	Comountlend		Duduadaal			Other	
of holes	Final diam.	Average depth	core	State	County	Generalized stratigraphy		Principal objectives		Cost	information	
01 110100	GIGH.	<u> </u>	<del>201 6</del>	DUAUG	<u>oouner</u>	But au 181 april		OUJCC01VES		0030	1111 01 1111 0111	
<b>.</b> 5	6"	600'		GA	Several south of Atlanta	Crystalline		Test site s	election methods and	\$20,000	Drilling by o	ontract
10	4" or 6"	100-200	•	GA	Several counties in	Upper Eccene		Hydrology o	of Dougherty Plain	\$10,000	Drilling by o	ontract
					Dougherty Plain		•				9	
										•		, ,
												•
INDIVIDUA	L DRILL	HOLES							· -			•
Hole name		24	nal	Cored			Comput 14 and		D-443		C44	Finish
or number		-		ntervals	State Lat	Long	Generalized stratigraphy		Principal objectives	Cos	Start <u>Date</u>	<u>Date</u>
Burke Co.		2000' 6	5" E	very 100'	GA 32°52'3	0" 82°12 · 40"	Lower Tertiary Cretaceous		Regional stratigraphy, aquifer geometry	\$75	5,000 10/79	12/79
PROGRAM:	·	<del></del>	<del></del>	DIVISION:	WRD	DISTRICT: Kentuck	y	CONTAC	T: Philip A. Emery, Lou	isville, KY	DATE	E: 8/23/79
GROUPS OF	DRILLE	IOLES		*								
	B4 *	<b></b>		•	• •			D		-	044	to the
Number of holes	Final diam.	Average depth	core	Loca State	County	Generalized stratigraphy		Principal objectives		Cost	Other <u>information</u>	
10 30	1&1/2" 6"	110' 100'	0 100	KY KY	Jefferson In eastern coal field	Glacial outwash a Sandstone, shale,		Lithology - Coal hydrol	water level data ogy		In-house: Cooperator	
	· · · · · · · ·					<del></del>		· · · · · · · · · · · · · · · · · · ·		<del></del>		

PROGRAM:	Caribbe	an Distri	ct	DIVISION:	WRD	DISTRICT: Caribbean	CONTACT: James E. Heisel, San	Juan, PR	DATE: 5/9/79
GROUPS OF	DRILLH	OLES							
Number of holes	Final	Average depth	\$ core	Local <u>State</u>	tion County	Generalized stratigraphy	Principal objectives	Cost	Other <u>information</u>
3	6"	2001	20	PR	Loiza	Alluvium	Exploratory	\$8500	Cooperator
. 3	•	#		PR	Rio Grande San German Cabo Rojo Hormigueros	<b>H</b>		W	W
27 30	6" 2"	90' 15'	20 10	PP PR	Arecibo Barceloneta	Muck and limestone	Exploration Materials	\$50,000	Contract - Survey (\$50,000 for both)
J0	Έ,	23					Pressures Discharge	•	(450,000 201 00011,
10	i ii	1001	20	PR	Barceloneta	Limestone	N N	, ,	Funded by Dept. of Ag., PR
PROGRAM:			-	DIVISION:	WRD	DISTRICT: South Carolina	CONTACT: Phillip W. Johnson,	Columbia,	SC DATE: 4/26/79
GROUPS OF	DRILLH	OLES		•		•			
Number of holes	Final diam.	Average depth	core	Local State	County	Generalized stratigraphy	Principal objectives	Cost	Other information
35-40	ħ#	5001	35	sc	All Coastal Plain Counties	Coastal Plain	Definitive geologic and hydrologic data - Groundwater and quality of water monitoring sites		Unsure whether this project will be funded in FY-80.
PROGRAM:		gy Carbon s-Lincoln		DIVISION:	WRD	DISTRICT: Tennessee	CONTACT: Pat Hollyday, Nashvi	lle, TN	DATE: 8/22/79
GROUPS OF	DRILLH	OLES							
Number of holes	Final	Average depth	\$ core	Loca State	tion County	Generalized stratigraphy	Principal objectives	Cost	Other information
3	6-1/4	1001	0	TN	Lincoln	Mississippian Fort Payne	Hydrologic Investigation ~ test wells	\$5000	Contracted by cooperator, L. C. Public Utilities
GROUPS OF	DRILLH	IOLES (cor	tinue	t)		•			· · · · · · · · · · · · · · · · · · ·
Number of holes	Final diam.	Average depth	core	Loca <u>State</u>	tion County	Generalized <u>stratigraphy</u>	Principal <u>objectives</u>	Cost	Other information
2				TN	Lincoln	Ordovician Cannon Limestone	<b>"</b>	\$4000	Tentative - not currently funded

PROGRAM:		Dickso		DIVISION:	WRD	DISTRICT: Tennessee	CONTACT: Ann Zurawski, Nashv	ille, TN	DATE: 8/27/79
GROUPS OF	F DRILLHO	DLES							
Number of holes	Final	Average depth	core	Loca State	tion County	Generalized stratigraphy	Principal objectives	Cost	Other information
15	6*	200'	0	TN	Dickson	Mississippian - Warsaw Forma- tion	Hydrologic Investigation - test wells	\$25,000	Cost includes aquifer tests. Drilling con-
10	6"	170'	0	in	Williamson	Mississippian - Fort Payne Formation	Hydrologic Investigation - test wells	\$17,005	tracted by cooperator Cost includes 3 aquif- er tests Drilling contracted by cooperator
PROGRAM:		y Carbon		DIVISION:	WRD	DISTRICT: Tennessee	CONTACT: C. R. Burchett, Nasi	ville, TN	DATE: 5/7/79
GROUPS OF	-								
Number of holes	Final	Average depth	core	Loca State	County	Generalized stratigraphy	Principal <u>objectives</u>	Cost	Other <u>information</u>
3	ЦĦ	250'	0	TH	Rutherford	Ordovician limestones Stones River and Nashville Groups	Hydrologic Investigation - test holes	\$800 ea.	Tentative - not currently funded. Will be contracted to local water well driller.
PROGRAM:	Lignite W. Tenne		-	DIVISION:	WRD	DISTRICT: Tennessee	CONTACT: W. S. Parks, Memphis	, TN	DATE: 8/27/79
GROUPS OF	DRILLHO	LES		•	•				
Number of holes	Final		_	s ore Stat	Location County	Generalized <u>stratigraphy</u>	Principal objectives		Other ormation
6-12	uncerta	in 200-	300' 2	25 TN	Lauderda	le Eccene Jackson Formation	Observation well construction	fun	tative - not currently ded. Will be contracted driller by cooperator.

PROGRAM: ORNL Burial Ground Studies

DIVISION: WRD

DISTRICT: Tennessee

CONTACT: Dave Webster, Nashville, TN

DATE: 5/7/79

### GROUPS OF DRILLHOLES

Number of holes	Final	Average depth	core	Loca State	tion County	Generalized stratigraphy	Principal objectives	Cost	Other information
9-12	5"	125'	limited	TN	Roane	Conasauga Shale	Piezometer installation. Possibly QW monitoring of radionuclides.	\$60,000- \$70,000	Tentativenot yet funded. Union Car- bide (not a cooper-

funded. Union Carbide (not a cooperator) will contract for these wells at Oak Ridge Nat. Lab. USGS will design the wells and obtain data from them after construction.

PROGRAM: S.E. Limestone Aquifer Study

one

DIVISION: WRD

REGION: Southeast

CONTACT: R. H. Johnston, Atlanta, GA

DATE: 5/10/79

#### INDIVIDUAL DRILLHOLES

3.03.73.00.00 D.112.0									• •	•	
Hole name or number	Depth	Final diam.	Cored intervals	State	Lat	Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish <u>Date</u>
Green Swamp #1	2500*	3"	350-2500'	FL	28010157"	81049 ' 50"	Tertiary limestone & dolomite (Ocala, Lake City, & Oldsmar limestones	Stratigraphy, ground water quality, artesian head distribution by depth	\$56,000	10/79	12/79
Everglades Nat. Park No. 1 INDIVIDUAL DRIL		_	1330-2800' nued)	FL	250241	80°35'	Tertiary limestone & dolomite	Stratigraphy, ground water quality, artesian head changes with depth	<b>\$</b> 46,000	1/80	2/80
Hole name or number	Depth	Final diam.	Cored intervals	State	<u>Lat</u>	Long	Generalized stratigraphy	Principal objectives	Cost	Start Date	Finish <u>Date</u>
Waycross #1	2000- 3000'		?	GA	site not	selected	Tertiary limestone & dolomite	Stratigraphy, ground water quality, artesian head changes with depth	\$200,000	Propose details certain	

								•	
PROGRAM:				DIVISION	: WRD	RECION: Northeastern	CONTACT: John A. Baker, Resto	on; VA	DATE: 5/4/
GROUPS OF	DRILLH	OLES	•						
Number	Final	Average	*		ation	Generalized	Principal		Other
of holes	diam.	depth	core	State	County	stratigraphy	<u>objectives</u>	Cost	information
5	Йш	70'	0	MN	Hennepin	Drift & upper bedrock	Quality of water, water level,	\$7,500	4/15~5/15/80
5	5"	80'	90	MN	Hennepin	, <b>H</b>	stratigraphy, transmissivity.	\$7,500	5/1-6/15/80
40	Ŋ۳	2001	0	MN	Swift	Drift	and storage coefficient	\$36,000	8/1-9/30/80
5 -	Ħш	150'	0	MN	Carlton	Drift & Hinckley Sandstone	N	\$5,000	8/1-20/80
100	2"	75'	0	IN	Area not determined	Glacial outwash	Water level, stratigraphy	\$30,000	
. 5	6n	110'	0	ОН	Jefferson	Sandstone, coal	Water level, quality of water	\$8,000	
1	6*	100'	ŏ	PA					
25	2"	50'	-		Columbia	Alluvium	Pump test	\$5,000	
-	_	•	10	CT	Statewide	Glacial	Water level, stratigraphy,	\$8,800	
50	2"	50'	10	CT	Fairfield	н	quality of water	\$17,500	\$
2	2"	50'	10	CT .	Windham New London	п .	Water level	\$700	. •
12	6 <b>"</b>	40'	20	NY	Oswego	Stratigraphic drift	Lithology, water level, quality	\$12,000	
15	ħп	. 50'	25	NY	Broome	11	of water	\$8,000	:
5	6 <b>n</b>	50'	0	NY	Courtland	H	т .	\$7,000	
5	6"	50'	0	NY	Chemung	Ħ	<b>H</b>	\$7,000	•
. 5	6*	125'	0	MI	Unknown	Glacial & bedrock	Water level, stratigraphy, qual- ity of water	\$30,000	
9	6-8"	75-1000	0	MD	Garrett	Paleozoic	Multi-head observation	•	Contracts in prep.
		,,			Anne	Coastal Plain sed. through to basement			constacts in preparation
1 .	8"	1250'	0	MD	Arundel	M .	Stratigraphy, water level		
1	8"	2300'		MD	Queen Annes	Coastal Plain to basement	n n		e
		arrior Co	al	DIVISION	: Conservation	REGION: Eastern	CONTACT: Orrin Gilbert, Washi	ngton, D.C.	DATE: 4/30
	Basin,	Phase II					•		
ROUPS OF	DRILLH	OLES				•			
Number.	Final	Average	\$	Loca	ation	Generalized	Principal	· .	Other
holes	diam.	depth	core	State	County	stratigraphy	<u>objectives</u>	Cost	information
24	187/8"	1200'	100	AL	?	Pottsville Fm. (Pennsylvanian): Alternating	Mary Lee and Black Creek coal beds	7	After Phase I, the Bureau of Land
		•				shales, sandstones, and coal (minor limestones)			Management will select tracts for
									further evaluation
			•					•	Phase II drilling
	_								will concentrate
	•	-							on these selected
		*							
	*								tracts. We presen
									do not know where
						•	· · · · · · · · · · · · · · · · · · ·		they will be.

PROGRAM: National Petroleum Reserve in Alaska

DIVISION: Director's Office

CONTACT: R. D. Carter, Menlo Park, CA

DATE: 8/22/79

## GROUPS OF DRILLHOLES

Number of holes	Final diam.	Average depth	¢ core	Loca State	tion <u>County</u>	Generalized stratigraphy	Principal objectives	Cost	Other information
3000		110'	spl. at	AK	NPR-A		Seismic shotholes		

## INDIVIDUAL DRILLHOLES

Hole name or number	<u>Depth</u>	Final	Cored intervals	State	(Tentati Township	lve) Range	Generalized stratigraphy	Principal objectives		Cost	Start Date	Finish Date
Nulavik #1	6000		•	AK	T19N	R21W		Test well			٠.,	
Koluktak #1	4500				T5N	R11W		•				
East Simpson #2	7000				T19N	R12W		Ħ				
Nuwuk #1	12001				T24N	R17W		#				
Awuna #1	15000'				T3S	R25W		•	•			