

PROJECT APPRAISAL REPORT (PAR)

PD-AAC-074-D1

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1. PROJECT NO. <b>669-51-210-071</b>	2. PAR FOR PERIOD: <b>July 1970 TO June 1971</b>	3. COUNTRY <b>LIBERIA</b>	4. PAR SERIAL NO.
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5. PROJECT TITLE  
**Geological Survey and Appraisal**

I.I.D. *4p*  
Reference Center  
Room 1030 ES

6. PROJECT DURATION: Began FY <b>1961</b> Ends FY <b>1972</b>	7. DATE LATEST PROP	8. DATE LATEST PIP	9. DATE PRIOR PAR
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10. U.S. FUNDING	a. Cumulative Obligation thru Prior FY: \$ <b>785,000</b>	b. Current FY Budget: \$ <b>507,000</b>	c. Estimated Budget to complete After Current FY: \$ <b>729,000</b>
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11. KEY ACTION AGENTS (Contractor, Participating Agency or Voluntary Agency)

a. NAME	b. CONTRACT, PASA OR VOL. AG. NO.
<b>U.S. Geological Survey</b>	<b>PASA</b>

I. NEW ACTIONS PROPOSED AND REQUESTED AS A RESULT OF THIS EVALUATION

A. ACTION (X)			B. LIST OF ACTIONS	C. PROPOSED ACTION COMPLETION DATE
USAID	AID/W	HOST		
X		X	PROP to be revised.	June 25
		X	Additional office space provided for increased complement of USGS personnel.	August 1

D. REPLANNING REQUIRED	<input checked="" type="checkbox"/> REVISED OR NEW	<input type="checkbox"/> PROP	<input type="checkbox"/> PIP	<input type="checkbox"/> PRO AG	<input type="checkbox"/> PIO/T	<input type="checkbox"/> PIO/C	<input type="checkbox"/> PIO/P	E. DATE OF MISSION REVIEW <b>June 11, 1971</b>
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PROJECT DIRECTOR: <b>Howard V. Odier</b> NAME, SIGNED INITIALS AND DATE <i>HOV</i> 6/23/71	MISSION DIRECTOR: <b>William C. Wild, Jr.</b> NAME, SIGNED INITIALS AND DATE <i>W.C.W.</i>
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James Kelly, Program

**II. PERFORMANCE OF KEY INPUTS AND ACTION AGENTS**

A. INPUT OR ACTION AGENT CONTRACTOR, PARTICIPATING AGENCY OR VOLUNTARY AGENCY	B. PERFORMANCE AGAINST PLAN							C. IMPORTANCE FOR ACHIEVING PROJECT PURPOSE (X)				
	UNSATISFACTORY		SATISFACTORY			OUT-STANDING		LOW		MEDIUM		HIGH
	1	2	3	4	5	6	7	1	2	3	4	5
1. <b>U.S. Geological Survey</b>				<b>X</b>								<b>X</b>
2. <b>AID/W</b>		<b>X*</b>									<b>X</b>	
3. <b>USAID</b>			<b>X*</b>								<b>X</b>	

Comment on key factors determining rating:

1. Adherence to work schedule hampered by late arrival of USGS personnel. Timely recruiting of personnel and prompt processing of candidates through DEGS/W, AID/W, and USAID/L will improve performance.

\* 2,3. Lack of timely approval of FY 1971 PROP significantly delayed implementation of field schedule.

4. PARTICIPANT TRAINING				<b>X</b>									<b>X</b>	
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Comment on key factors determining rating:

5. COMMODITIES			<b>X</b>										<b>X</b>	
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Comment on key factors determining rating:

Vehicle specifications submitted by the project were tailored to climate, terrain, and maintenance facilities of Liberia. Vehicles delivered did not meet specifications, and inadequate maintenance facilities have resulted in costly delays and diversion of professional effort.

6. COOPERATING COUNTRY	a. PERSONNEL			<b>X</b>									<b>X</b>	
	b. OTHER					<b>X</b>					<b>X</b>			

Comment on key factors determining rating:

Improved salary schedule and system for rewarding professional achievement essential if IGS is to reach level of optimal performance.

7. OTHER DONORS				<b>X</b>								<b>X</b>		
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(See Next Page for Comments on Other Donors)

II. 7. Continued: Comment on key factors determining rating of Other Donors

**III. KEY OUTPUT INDICATORS AND TARGETS**

A. QUANTITATIVE INDICATORS FOR MAJOR OUTPUTS		TARGETS (Percentage/Rate/Amount)					END OF PROJECT
		CUMULATIVE PRIOR FY	CURRENT FY 71		FY 72	FY	
			TO DATE	TO END			
1. Number of trained personnel (new starts) (See Attachment B)	PLANNED	20	0	0			20
	ACTUAL PERFORMANCE	16	0				
	REPLANNED			(2*)			16
2. Dollar value of facilities and equipment (\$1,000)	PLANNED	126	29	29	2		157
	ACTUAL PERFORMANCE	126	34				
	REPLANNED			-	2		162
3. Percentage completion of data base (See Attachment A)	PLANNED	60	20	20	20		100
	ACTUAL PERFORMANCE	60	18				
	REPLANNED			NA	22		100
4. Man months of USGS personnel effort (See Attachments E and F)	PLANNED	666	140	NA	153		859
	ACTUAL PERFORMANCE	483	102				
	REPLANNED			NA	169		754
<del>5. Adequacy of facilities and equipment</del> k		COMMENT:					
5. Adequacy of facilities and equipment		Office space currently allotted to the LGS is not adequate due to the increased USGS personnel complement,					
B. QUALITATIVE INDICATORS FOR MAJOR OUTPUTS		COMMENT:					
1. Functional organization structure (viable institution)		By June 1972 there will be sufficient trained personnel, equipment, budget and facilities to adequately carry out the envisaged geological programs of the BNR&S.					
2. Utility of data base		COMMENT: The maps, reports, and reference materials are in wide-spread use by GOL, the private sector, and the world scientific community.					

\*Non-cumulative.

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IV. PROJECT PURPOSE

A. 1. Statement of purpose as currently envisaged.

2. Same as in PROP?  YES  NO

To provide the institutional capability and the data base necessary for the Government of Liberia's systematic development and utilization of its earth resources.

B. 1. Conditions which will exist when above purpose is achieved.	2. Evidence to date of progress toward these conditions.
<ol style="list-style-type: none"> <li>1. Institutional capability</li> <li>2. Data base sufficient for IGS to carry on. Requires data depository, maps, reports, and reference materials that will provide basis and serve as models for further geologic study, earth resources evaluation, and engineering studies. Basic to development of institutional capability. (See attachment X)</li> </ol>	<ol style="list-style-type: none"> <li>1. Fourteen trained personnel working in ENR&amp;S using facilities and equipment.</li> <li>2. Maps, reports, and reference materials in wide-spread use by GOL, the private sector, and the world scientific community.</li> <li>3. GOL has given strong support to the Liberian Geological Bureau whose budget has increased at an average of 77% annually since 1964.</li> </ol>

V. PROGRAMMING GOAL

A. Statement of Programming Goal

To assist the GOL in the development of its economic sectors in order to increase productive output and generate employment and income in the economy.

B. Will the achievement of the project purpose make a significant contribution to the programming goal, given the magnitude of the national problem? Cite evidence. Yes. In the following areas:

1. In the exploration and development of offshore petroleum and mineral resources. Several companies are currently carrying exploration for oil as a result of geophysical studies.
2. Onshore mineral resources. Potentially economic deposits of barite have been discovered; other possible mineral resources, such as glass sand and placer deposits of titaniferous and rare earth minerals, are indicated by geological and geophysical studies.
3. Base maps prepared under the GERA project are finding widespread use in such diverse activities as water resources and hydrologic studies; harbour studies; mineral resources studies by private companies; and road, railroad, and power-line construction.