DOE/BC/10062-14
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"CROSS-BOREHOLE SEISMIC PROBING FOR PETROLEUM RESERVOIR ASSESSMENT"

MONTHLY REPORT FOR THE PERIOD

August 1, 1980 - August 31, 1980

By:

J. T. Okada - Principal Investigator

Work Performed for the Department of Energy

Under Contract DE-AT19-79BC10062

Lawrence Livermore National Laboratory

Livermore, California 94550

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September 4, 1980
Report No. 14
Report Period: 1 August 80 - 31 August 80
Principal Investigator: J. T. Okada

Contract Title: Cross-Borehole Seismic Probing for Petroleum Reservoir Assessment

Contract Name: Lawrence Livermore National Laboratory
Livermore, California 94550

Contract Period: 1 October 1979 - 30 September 1982

The 25 joule marine sparker (p-wave source) has been obtained on a three-month lease. The device was tested as received in both a saline and fresh water environment. Operation (producing a spack) seemed to be more reliable in a saline solution. Modifications are underway to enable the device to operate in a dry hole.

The contract with Cities Service Company is still evolving.

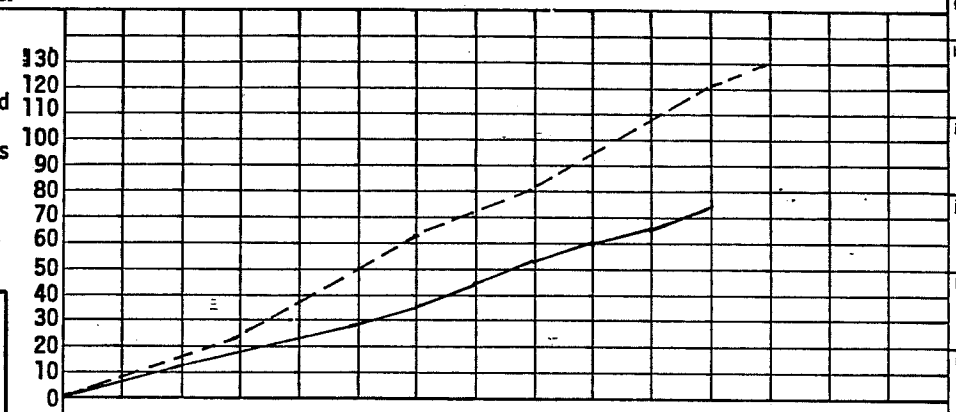
OMB NO. 38R-0190

1. Contract Identification: Cross-Borehole Seismic Probing for Petroleum Reservoir Assessment	2. Reporting Period: 8/1/80 through 8/31/80	3. Contract Number: AT DE-19-79BC10062
4. Contractor (Name and Address): Lawrence Livermore Laboratory, 7000 East Avenue, P. O. Box 5504, Livermore, CA 94550		5. Contract Start Date: 10/01/79
		6. Contract Completion Date: 9/30/82

7. Months: O N D J F M A M J J A S — 8. FY 80

9. Cost Status

a. Thousand of Dollars



b. B&R Numbers

Accrued Costs	O	N	D	J	F	M	A	M	J	J	A	S
c. Planned	8	8	8	13	13	13	9	9	13	13	13	10
d. Actual	6	6	5	5	5	8	10	7	8	5	5	
e. Variance	2	2	3	8	8	5	-1	2	5	8	8	
f. Cum. Variance	2	4	7	15	23	28	27	29	34	42	50	

g. Cost Plan Date

h. Planned Costs Prior FYs: N/A

i. Actual Costs Prior FYs: N/A

j. Total Estimated Costs for Contract: 400

k. Total Contract Value: 400

l. Unfilled Orders Outstanding: 0

m. Estimate for Subsequent Reporting Period

10. Manpower Status (Direct Labor)

a.

Manpower	
b. Planned	
c. Actual	
d. Variance	

e. Manpower Plan Date

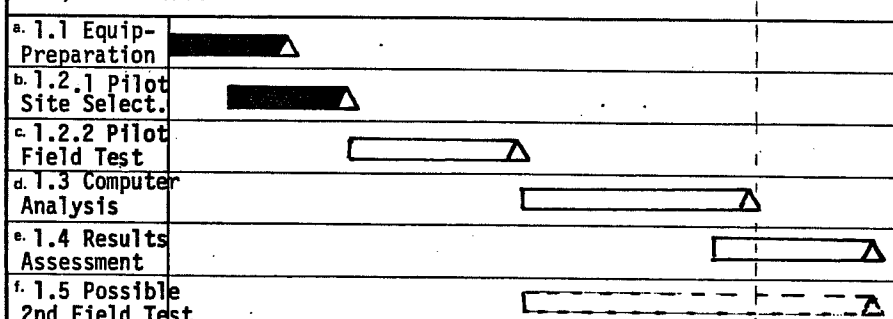
f. Planned Manpower Prior FYs

g. Actual Manpower Prior FYs

h. Total Estimated Manpower for Contract

i. Total Contract Manpower

11. Major Milestone Status



12. Remarks

13. Signature of Contractor's Project Manager and Date: [signature] 9/9/80

14. Signature of Government Technical Representative and Date: