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Contract EG-77-C-08-1525

SCHEDULE

Article 1 Deliverables

- A. <u>Definition</u>: "Data" shall mean recorded information of a scientific or technical nature regardless of form or character. It shall include, but not be limited to, surveys, maps, charts, displays, analyses, evaluations, studies and environmental evaluations.
- B. <u>Data to be Delivered</u>. Within 10 days after the effective date of this Contract, the Contractor shall provide to the ERDA on a non-proprietary basis irrespective of paragraph e "Withholding of Proprietary Data" of Article B-6, "Rights in Technical Data" of Appendix B of this Contract, the following data from its Utah State Wells 14-2 and 72-16:
 1. From Well Utah State 14-2, Roosevelt Steam Field SW Utah, T27S, R9W, Section 2
 - a. General Well specifications
 - b. Boréhole data
 - (1) Well summary, drilling history and bit record
 - (2) Alpha Beta Gamma Associates, Inc., Lithologiclog, 79' 6100'
 - (3) Drill Cutting Samples

(4) Agnew & Sweet wireline temperature and pressure

logs:

(5)

Static temperature survey	October 16, 1	976
blatte temperature survey	00000001 10, 1	//0
Static temperature survey	November 15,	1976
Static temperature survey	November 18,	1976
2 Static pressure surveys	November 18,	1976
Schlumberger logs:		
Conventional temperature log	Run 1	110'-1810'
Special high resolution temperature log	Runs 2	1500'-1621'
Induction electric log	Runs 1 & 2	650 '- 6118'
BHC sonic log with gamma ray	Runs 1 & 2	600'-6112'
Compensated neutron formation density log	Runs 1 & 2	600'-6121'
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c. Production and reservoir data (48 hour flow test)

- (1) Description of test and testing procedure
- (2) Flow rates and calculations
- (3) Fluid temperature and pressure data
- (4) Analyses of water samples at six hour intervals
- (5) Steam and water analysis by USGS

2. From Well Utah State 72-16, Rossevelt Steam Field T27S, R9W, Section 16

a. General well specifications

- b. Borehole data:
 - (1) Well summary, drilling history and bit record
 - (2) Alpha Beta Gamma Associates, Inc., lithologic
 log, 85' 1245'
 - (3) Cut of samples (each 10')
 - (4) Agnew & Sweet wireline temperature and pressure logs:

Static temperature survey	November 17, 1976
Static temperature survey	March 30, 1977
Static pressure survey	March 30, 1977
Static temperature survey	April 5, 1977

(5) Schlumberger logs:

Conventional temperature log	Run 1	0' - 525'
HRT temperature log	Run 2	50' - 1012'
VDL-GR cement bond log	Run 1	0' - 534'
Special	Run 2	20' - 999'

c. Production and reservoir data (24 hour flow test)

- (1) Description of test and testing procedure
- (2) Flow rates and calculations
- (3) Fluid temperature and pressure data
- (4) Analysis of water samples
- (5) Pressure build-up data

The "cut of samples" data from both wells shall be forwarded

to:

Dr. Howard Ross, Earth Sciences Lab. University of Utah Research Park 391 Chipeta Way Salt Lake City, Utah 84108

Six (6) copies of all other data above shall be forwarded to:

James B. Cotter, Chief Energy Research Projects Branch U. S. Energy Research Development & Admin. Nevada Operations Office P. O. Box 14100 Las Vegas, Nevada 89114

Article 2 <u>Compensation</u>

The Contractor shall be paid the amount of \$282,000 upon receipt and acceptance of all the deliverables set forth in Article 1, above. The Government reserves the right before acceptance to obtain necessary written clarifications and explanations from the Contractor to establish an understanding of the data received. Up to 5% of the above lump sum amount may be retained pending receipt of such clarifications and explanations and acceptance of all the data required by this Contract.

-4-

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Mr. James B. Cotter, Chief Energy Research Projects Branch U. S. Energy Research and Development Administration Nevada Operations Office P. O. Box 14100 Las Vegas, Nevada 89114	• •	AMISEE - AMIPAB. AMIPAB.	/	'

Dear Mr. Cotter:

With reference to Mr. D'Olier's (TPC) letter to Mr. Taft (ERDA) dated September 27, 1977, concerning Contract EG-77-C-08-1525. Six (6) copies of the contracted material is being sent via Certified Mail under separate cover.

-Data from Well Utah State 14-2-

- 1) Well Summary, Drilling History, and Bit Record.
- 2) Lithologic Log by ABG Associates Inc. 79'-6100'
- 3) Agnew and Sweet Wireline Temperature and Pressure Logs:

Static	Temperature	Survey	(1)	16	October 1	.976
Static	Temperature	Survey	(1)	15	November	1976
Static	Temperature	Survey	(1)	18	November	1976
Static	Pressure Sur	veys	(2)	18	November	1976

4) Schlumberger Logs:

Conventional Temperature Log-Run 1 110'-1810' High Resolution Temp. Log-Run 2 1500'-6121' with Differential Temp. Curve Induction Electric Log-Runs 1&2 650'-6118' BHC Sonic Log w/ Gamma Ray Runs 1&2 600'-6112' Comp. Neutron-Formation Runs 1&2 600'-6121' Density Log

601 California Street, San Francisco California 94108, 415-981-5700, Telex: 34387 NATOMAS SFO

Mr. James B. Cotter September 30, 1977 Page Two

> 5) Production and Reservoir data from a 48-hour flow test, 16 to 18 November 1976.

Report includes:

Summary Description of Test Special Comments on Rock-Throttling and Surging Data Reduction Methods Sample Calculation Calculation Tables Value Tables Value Tables Appendix Original Data Sheets Graphs of Data and Values vs. Time P-T Survey Field Readings HP-25 Program For ho Solution Water Analysis

-Data from Well Utah State 72-16-

1) Well Summary, Drilling History, and Bit Record.

- 2) Lithologic Log by ABG Associates Inc. 85'-1245'
- 3) Agnew and Sweet Wireline Temperature and Pressure Logs:

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Static	Temperature Survey	17 November 1976
Static	Temperature Survey	30 March 1977
	Pressure Survey	5 April 1977
Static	Pressure Survey	30 March 1977

4) Schlumberger Logs: Temperature Log-Run 1 0'-525' Temperature Log HRT-Run 2 50'-1012' w/ Diff. Temp. Curve Cement Bond Log VDL~GR-Run 1 0'-534' Cement Bond Log VDL~Run 2 20'-999' Mr. James B. Cotter September 30, 1977 Page Two

> 5) Production and Reservoir data from a 48-hour flow test, 16 to 18 November 1976.

Report includes:

Summary Description of Test Special Comments on Rock-Throttling and Surging Data Reduction Methods Sample Calculation Calculation Tables Value Tables Appendix Original Data Sheets Graphs of Data and Values vs. Time P-T Survey Field Readings HP-25 Program For ho Solution Water Analysis

-Data from Well Utah State 72-16-

1) Well Summary, Drilling History, and Bit Record.

- 2) Lithologic Log by ABG Associates Inc. 85'-1245'
- 3) Agnew and Sweet Wireline Temperature and Pressure Logs:

Static Temperature Survey	17 November 1976
Static Temperature Survey	30 March 1977
Static Pressure Survey	5 April 1977
Static Pressure Survey	30 March 1977

4) Schlumberger Logs: Temperature Log-Run 1 0'-525' Temperature Log HRT-Run 2 50'-1012' w/ Diff. Temp. Curve Cement Bond Log VDL-GR-Run 1 0'-534' Cement Bond Log VDL-Run 2 20'-999'



3alE



May 18, 1977

U. S. Energy Research & Development Administration Nevada Operations Office P. O. Box 14100 Las Vegas, Nevada 89114

Attention: Mr. James B. Cotter, Chairman Source Evaluation Panel

Gentlemen:

Attached for your consideration is a proposal to sell existing data from a producing well in the Roosevelt Steam Field. Well Utah State 72-16.

Verv trul ours W. L. D'Olier

Vice President Geothermal Operations

KRD/tti

Attachments: Well Data Proposal (10 copies)

Enclosures:

 Representations and Certifications Standard Form 19-B - Section 1 through 7 (2 pages)

- 2) Supplement to Representations and Certifications - Section 8 through 13 (6 pages)
- 3) Contract Pricing Proposal (2 pages) Well Cost-Summary of Expenditures

7a/E

A Proposal To The United States Energy Research and Development Administration For The Geothermal Reservoir Assessment Case Study Program (RFP No. EY-R-08-0007)

A. From: Thermal Power Company (TPC) 601 California Street San Francisco, California 94108

B. Technical Proposal

- 1. Borehole and reservoir data from a producible well is submitted as a candidate for a cash award.
 - a) Producible well Utah State 72-16 in Roosevelt Steam
 Field of southwest Utah T27S, R9W, Section 16,
 S.L.B.&M. From NE corner 990'S, 990'E.
 - b) Owners:
 - 1) O'Brien Resources (2/3rds)
 - 2) TPC (1/6th) Operator of well
 - 3) Thermal Exploration Company (1/6th)
- 2. Data offered and description:
 - a) General:
 - -Well Utah State 72-16

1)	Well commenced:	22 October 1976
2)	Well completed:	31 December 1976
3.)	Total depth:	1254'
4)	Hole configuration:	9-5/8" casing to 1098' 12%" open hole 1098'-1245' 8½" open hole 1245'-1254'
5)	Maximum Temperature:	469°F. at T.D.
6)	Producing Interval:	1245'-1254'
7)	Producing Rate:	Approximate total mass flow 1.3 million lbs./hr.

- b) Borehole Data Available:
 - 1) Well Summary, Drilling History and Bit Record
 - 2) Lithologic log 85'-1245' by ABG Associates Inc. - well logging service
 - 3) Cut of samples (each 10')
 - 4) Agnew & Sweet wireline temperature and pressure logs

A&S static temperature survey - 17 November 1976 A&S static temperature survey - 30 March 1977 A&S static pressure survey - 30 March 1977 A&S static temperature survey - 5 April 1977

5) Schlumberger Logs

Temperature L	og	(conv.)	Run l	0'- 525'
Temperature L	og	(HRT) *	Run 2	50'-1012'
Cement Bond L	og	(VDL-GR)	Run 1	0- 534'
* Special			Run 2	20'- 999'

c) Production and reservoir data taken during 24-hour flow test.

3. Costs and Release of Data:

- a) Total well cost: \$1,247,555.00
- b) Proposed Cost to Government: 24% or \$299,413,00
- c) Release of data can be made immediately.

C. Qualification

The following is a summary of our operating qualifications. This should be adequate to evaluate our professional abilities as relates to the quality of the data being offered:

TPC is a California corporation headquartered at 601 California Street, San Francisco, California, 94108. As a 98% owned subsidiary of Natomas Company, TPC is a geothermal operating company which owns a 25% working interest in the wellfields and geothermal energy reserves in The Geysers, Sonoma County, California where geothermal steam is produced to generate electricity from a present aggregate of 522 megawatts of plant capacity built, owned and operated by Pacific Gas & Electric Company. TPC's geologists and engineers represent the corporate interest in all details of the operations at The Geysers, which are conducted by Union Oil Company of California as operator for the Union-Magma-Thermal joint venture on that property. TPC, for its own account and other joint venture accounts has drilled and completed exploratory geothermal wells on other prospects in the western United States. The most recent wells are two wells completed in the Roosevelt Steam Field. These are the latest wells in an ongoing program to evaluate prospective geothermal areas by drilling.

KRD/tti-4/15/77



May 18, 1977

U. S. Energy Research & Development Administration
Nevada Operations Office
P. O. Box 14100
Las Vegas, Nevada 89114

Attention: Mr. James B. Cotter, Chairman Source Evaluation Panel

Gentlemen:

Attached for your consideration is a proposal to sell existing data from a producing well in the Roosevelt Steam · Field. Well Utah State 14-2.

truly vours. Verv L. 'D'Olier Ŵ.

Vice President Geothermal Operations

KRD/tti

Attachments: Well Data Proposal (10 copies)

Enclosures: 1) Representations and Certifications Standard Form 19-B - Section 1 through 7 (2 pages)

- 2) Supplement to Representations and Certifications - Sections 8 through 13 (6 pages)
- 3) Contract Pricing Proposal (2 pages) Well Cost-Summary of Expenditures

36/2

A Proposal To The United States Energy Research and Development Administration For The Geothermal Reservoir Assessment Case Study Program (RFP No. EY-R-08-0007)

A. From: Thermal Power Company (TPC) 601 California Street San Francisco, California 94108

B. Technical Proposal

- 1. Borehole and reservoir data from a producing well is submitted as a candidate for a cash award.
 - a) Well Utah State 14-2
 Roosevelt Steam Field SW Utah
 T27S, R9W, Section 2 Fr. NW cor. 2310'S and 350'E.

36/E

b) Owners:

1) 50% Thermal Power Company (Operator)

2) 50% Thermal Exploration Company

2. Data offered and description:

a) General

-Well Utah State 14-2:

1) Spud: 11 September 1976

2) Completion: 14 October 1976

3) Total depth: 6100'

4) Hole configuration: 9-5/8" casing to 1805' $8\frac{1}{2}"$ open hole from 1805' to 6100'

5) Maximum temperature: 517°F at T.D.

6) Producing Intervals: Major: 2924'- 3090' Minor: 1812'- 1824'

7) Producing Rate: Total mass flow

495,000 lbs./hr.

- b) Borehole Data Available:
 - 1) Well Summary, Drilling History, and Bit Record
 - 2) Lithologic Log 79' 6100' by Alpha Beta Gamma Associates, Inc. - well logging service
 - 3) Cut of samples
 - 4) Agnew & Sweet wireline temperature and pressure logs
 A&S static temperature survey 16 October 1976
 A&S static temperature survey 15 November 1976
 A&S static temperature survey 2:40 AM, 18 November 1976
 A&S static pressure survey 2:40 AM, 18 November 1976
 A&S static pressure survey 6:10 PM, 18 November 1976
 5) Schlumberger Logs

Run 1

Conventional Temperature Log

Special High Resolution

Induction Electric Log

BHC Sonic Log with Gamma Ray

Compensated Neutron-Formation Density Log

Runs 1 & 2 - 600' - 6121'

Runs 1 & 2 - 650 - 6118'

Runs 1 & 2 - 600'- 6112'

110' - 1810'

Run 2 1500' - 6121'

2

- c) Production and Reservoir data taken during 48-hour flow test.
- 3. Costs and Conditions
 - 1) Total well costs: \$544,471.00
 - 2) Proposed Cost to Government: 20% or \$108,894.00
 - 3) All data may be made available to the public immediately.

C. Qualification

The following is a summary of our operating qualifications. This should be adequate to evaluate our professional abilities as relates to the quality of the data being offered:

TPC is a California corporation headquartered at 601 California Street, San Francisco, California, 94108. As a 98% owned subsidiary of Natomas Company, TPC is a geothermal operating company which owns a 25% working interest in the wellfields and geothermal energy reserves in The Geysers, Sonoma County, California where geothermal steam is produced to generate electricity from a present aggregate of 522 megawatts of plant capacity built, owned and operated by Pacific Gas & Electric Company. TPC's geologists and engineers represent the corporate interest in all details of the operations at The Geysers, which are conducted by Union Oil Company of California as operator for the Union-Magma-Thermal joint venture on that property. TPC, for its own account and other joint venture accounts has drilled and completed exploratory geothermal wells on other prospects in the western United States. The most recent wells are two wells completed in the Roosevelt Steam Field. These are the latest wells in an ongoing program to evaluate prospective geothermal areas by drilling.

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KRD/tti-4/15/77