

THERMAL POWER COMPANY

WELL NO. CTG 14 AFE NO. _____
 REPORT NO. 34 DATE 10 July 1986
 TOTAL RIG DAYS 34 TIME FROM SPUD 230 + 10 hrs
 DEPTH @ 2400 HRS. 2181 FOOTAGE DRLD. 98
 HRS. DRILLED 24 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 75 °F. DEVIATION SURVEYS: _____
MCT 2130

10²⁴ CSG
 " CSG. 35
 4.5" CSG. 488
 " CSG. 526 temporary

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
5	2.751	CHES	MIC	7861		1775	100	906	108	1000	400	T B G
												T B G
												T B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
1				5-15	150			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____ HIGH AVERAGE LGW _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cred 98' from 2083 to 2181'
Recovered 100% ; NO DRUG FLUID
returns

COSTS

TANGIBLES

CASING _____
 VALVES _____
 FLANGES _____
 OTHER _____

INTANGIBLE

LOCATION _____
 RIG MOVES _____
 RIG 4106
 ABATEMENT _____
 BITS _____
 DRILL EQUIP. MAIN. _____
 DRILL. EQUIP. RENTAL 300
 FUEL, WATER POWER _____
 MUD 350
 SUPERVISION & LABOR 300
 CEMENT SERVICES _____
 TRANSPORTATION _____
 LOGGING SERVICES 330
 FISHING & DIRECTIONAL _____
 OTHER 250

OPERATION @ 0600 HOURS FOLLOWING DAY:
Crising at 2201' some
rod chatter.

DAILY TOTAL 51036
 FORWARD 162112
 ACCU. TOTAL 166148
 AFE 80.201 4.300 -02

DD 11 July
Gooden

10/2/86

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 35 DATE 11 JULY 1986
 TOTAL RIG DAYS 35 TIME FROM SPUD 34D + 10 HRS LINER _____
 DEPTH @ 2400 HRS. 2286 FOOTAGE DRLD. 105 TIE-BACK _____
 HRS. DRILLED 24 HRS. TRIPPED _____ HRS. REPAIR _____ RIG NO. _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.9 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 69 °F. DEVIATION SURVEYS: _____
MRT at 2243'

10^{3/4}" CSG. 35
 4.5" CSG. 488
 4.5" CSG. 526 temporary

3.937"

BIT # 5 SIZE CHRIS MAKE INC TYPE 65 SER. NO. 2461 JETS _____ IN 1775 OUT INC FT. 511 HRS. 132 WT. 1000 RPM 400 COND _____
 _____ T R G
 _____ T R G

PUMP _____ LINER _____ STROKE _____ SPM _____ GPM 542 PSI 150 TOTAL GPM _____ NOZZLE VEL. _____ ANNULUS VEL. _____

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE NOM AVERAGE LBS _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cord from 2181 to 2286'
Revised 105' = 100%
No fluid returns

COSTS
 TANGIBLES
 CASING _____
 VALVES _____
 FLANGES _____
 OTHER _____

INTANGIBLE
 LOCATION _____
 RIG MOVES _____
 RIG \$ 4400
 ABATEMENT _____
 BITS _____
 DRILL EQUIP. MAIN. _____
 DRILL. EQUIP. RENTAL 300
 FUEL, WATER POWER _____
 MUD 300
 SUPERVISION & LABOR 300
 CEMENT SERVICES _____
 TRANSPORTATION _____
 LOGGING SERVICES 330
 FISHING & DIRECTIONAL _____
 OTHER KEYLES 250

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coming at 2306'

INOPERATIVE EQUIPT, EXPLAIN _____

DAILY TOTAL 5880
 FORWARD 167,745
 ACCU. TOTAL \$ 173,628
 AFE 86 DOT 4300 02

DD 12 July
Bowden

THERMAL POWER COMPANY

WELL NO. CTGH 1 AEE NO. _____
 REPORT NO. 36 DATE 12 JULY 1986
 TOTAL RIG DAYS 36 TIME FROM SPUD 350 + 10 hrs
 DEPTH @ 2400 HRS. 2336 FOOTAGE DRLD. 50
 HRS. DRILLED 8 HRS. TRIPPED _____
 HRS. OTHER 16 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____
NONE

10³⁴ CSG. 35'
 7⁴⁵ CSG. 488
 4⁵ CSG. 326 Temporary

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
5	3.937	CHLRS	MC	152961		1775	2336	561	140	1000	400	T P G
												T P G
												T P G

PUMP I LINER _____ STROKE _____ SPM _____ GPM 5-15 PSI 750 TOTAL GPM _____ NOZZLE VEL. _____ ANNULUS VEL. _____

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO L RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

1/2 worn

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____ HIGH AVERAGE LCR _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 2286 to 2336 *
When wellline parted pulling
core sand off bottom
POH skipped core barrel; ran
new diamond core bit; cleaned rods
RTH cleaned and washed from
880 to 1000'
* full core recovery; no cutting
fluid returns

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 2095</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>PIPPES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Washing below 1000'

DAILY TOTAL 3575
 FORWARD 173,628
 ACCU. TOTAL 177,203
 AFE 86/001 4300 02

DO-13 July
 - BOWDEN

THERMAL POWER COMPANY

WELL NO. CTGlt 1 AFE NO. _____
 REPORT NO. 37 DATE 13 May 1980
 TOTAL RIG DAYS 27 TIME FROM SPUD _____
 DEPTH @ 2400 HRS. 2368 FOOTAGE DRLD. 32
 HRS. DRILLED 9 HRS. TRIPPED _____
 HRS. OTHER 15 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

10³⁴ CSG _____ 35
 " CSG. _____
 7 " CSG. 488
 5 " CSG. 526 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>6</u>	<u>3.937</u>	<u>CHMS</u>	<u>MC</u>	<u>1052460</u>		<u>2336</u>		<u>32</u>	<u>9</u>	<u>1000</u>	<u>400</u>	I B G
												I B G
												I B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>150</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Washed from 1000' to 2336' TD
No significant debris on bottom
Core from 2336 to 2368'
Full core recovery obtained;
no drilling fluid returns

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coming at 2385'

INOPERATIVE EQUIPMENT FOR _____

COSTS	
TANGIBLES	
CASING	
VALVES	
FLANGES	
OTHER	
INTANGIBLE	
LOCATION	
RIG MOVES	
RIG	<u>\$ 1340</u>
ABATEMENT	
BITS	
DRILL EQUIP. MAIN.	
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	
MUD	<u>350</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	
TRANSPORTATION	
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	
OTHER	<u>PAVLED 250</u>
1" WATER LINE	<u>500</u>
DAILY TOTAL	<u>3370</u>
FORWARD	<u>171,203</u>
ACCU. TOTAL	<u>\$ 18,0573</u>
AFE	<u>86.601 4,200 02</u>

DDM Kelly
BOWDEN

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 38 DATE 14 JULY 1986
 TOTAL RIG DAYS 38 TIME FROM SPUD 3:10 + 10 hrs
 DEPTH @ 2400 HRS. 2466 FOOTAGE DRLD. 98'
 HRS. DRILLED 24 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 85 °F. DEVIATION SURVEYS: _____
MRT AT 2395

10 3/4" CSG. 35
 7.5" CSG. 488
 4.5" CSG. 526 temporary

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
<u>6</u>	<u>3.937</u>	<u>CH86</u>	<u>ML</u>	<u>652460</u>		<u>2336</u>	<u>TNC</u>	<u>130</u>	<u>33</u>	<u>1004</u>	<u>400</u>	T B G
												T B G
												T B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>150</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE ^{HIGH AVERAGE LOG} _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 2368 to 2466'
100% core recovery; no drilling
fluid returns

Had cored to 2476'. Core
band jammed in core rods
at 2500' depth upon
retrieval. Broke wellbore
again. POH

OPERATION @ 0600 HOURS FOLLOWING DAY:

COSTS	
TANGIBLES	
CASING	
VALVES	
FLANGES	
OTHER	
INTANGIBLE	
LOCATION	
RIG MOVES	
RIG	<u>\$ 4106</u>
ABATEMENT	
BITS	
DRILL EQUIP. MAIN.	
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	
MUD	<u>350</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	
TRANSPORTATION	
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	
OTHER	<u>BOYLES 250</u>

DAILY TOTAL 5636
 FORWARD 180,573
 ACCU. TOTAL 186,209
 AFE 062014300 02

DD 15 July
BOWDEN

THERMAL POWER COMPANY

WELL NO. CT64-1 AFE NO. _____
 REPORT NO. 39 DATE 7/15/86
 TOTAL RIG DAYS 39 TIME FROM SPUD 38 D + 10 hrs
 DEPTH @ 2400 HRS. 2535 FOOTAGE DRLD. 69
 HRS. DRILLED 19 HRS. TRIPPED 5 hrs
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____
MRT @ 2544 - 96°F

10 3/4" CSG. 35'
 7" CSG. 488
 4.5" CSG. 526 temporary

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
#6	3.737	CH	NC	652460		2336		199	52	1000	400	T B G
												T B G
												T B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
#1				5-15	150			

AIR COMP. NO. _____ CFM. _____ PSI. _____ TEMP. °F. _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

5 hrs on trip. Run in hole with
wireline to retrieve core at 2476
Pulled out of hole with core in a
barrel hung up inside core tubing.
Pulled wireline into. pulled
out of hole, 17 stands, retrieve
core barrel, laid down 1 joint
of lead core tubing. Run into
hole at 2476. Washed out
bitbar from 1776 to 1780.
Washed out 5' of tail on
bottom. 19 hrs coring from
2455' to 2535'. No mud
problems at 100% core recovery.

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER (Truck) Movement	_____
INTANGIBLE	D+R cap = \$240
LOCATION	_____
RIG MOVES	_____
RIG	3046
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAINT.	_____
DRILL. EQUIP. RENTAL	\$300
FUEL, WATER POWER	_____
MUD	\$250.
SUPERVISION & LABOR	\$300.
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	\$250
FISHING & Boyles Sup	_____
DIRECTIONAL	_____
OTHER (Unload/Loadup mud)	\$750
2 gradings =	\$300
DAILY TOTAL	\$5566
FORWARD	\$4850
ACCU. TOTAL	\$19175
AFE	_____

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coring at 2562'

INOPERATIVE EQUIP'T. EXPLAIN

THERMAL POWER COMPANY

WELL NO. CTCH-1 AFE NO. _____
 REPORT NO. 49 DATE 7-16-86
 TOTAL RIG DAYS 40 TIME FROM SPUD 29+10h
 DEPTH @ 2400 HRS. 2594 FOOTAGE DRLD. 59
 HRS. DRILLED 16 HRS. TRIPPED _____
 HRS. OTHER 8 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____
 MRT @ 2584' = 99°F

1079 CSG. 35
 7" CSG. 488
 4.5" CSG. 526 Temp
 LINER _____
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>6</u>	<u>3.937</u>	<u>Chis</u>	<u>NC</u>	<u>632460</u>	<u>-</u>	<u>2336</u>	<u>-</u>	<u>258</u>	<u>68</u>	<u>1000</u>	<u>400</u>	<u>T B G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>T B G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>T B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>	_____	_____	_____	<u>515</u>	<u>150</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

AIR COMP NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LGH _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored 2535 - 2594', no mud returns,
100% core recovery
RIH w/ wireline to retrieve core @
2584', core barrel stuck on way out
at 400', pulled wireline in two, pulled
10 stands, retrieved core barrel,
Laid down 1 bad joint of core tubing,
installed new wireline. RIH 10 stands @
2584', continued to core to 2594'.

COSTS

TANGIBLES
 CASING _____
 VALVES _____
 FLANGES _____
 OTHER _____

INTANGIBLE
 LOCATION _____
 RIG MOVES _____
 RIG 2770
 ABATEMENT _____
 BITS _____
 DRILL EQUIP. MAIN. _____
 DRILL. EQUIP. RENTAL 300
 FUEL, WATER POWER _____
 MUD 350
 SUPERVISION & LABOR 300
 CEMENT SERVICES _____
 TRANSPORTATION _____
 LOGGING SERVICES 330
 FISHING & DIRECTIONAL _____
 OTHER _____

OPERATION @ 0600 HOURS FOLLOWING DAY:
Logging @ 2613'

INOPEATIVE EQUIPT EXPLAIN _____

Boyle SUP 250
 DAILY TOTAL 4300
 FORWARD 191775
 ACCU. TOTAL 196075
 AFE Rob Beutler

SLT
 17 July '86

THERMAL POWER COMPANY

WELL NO. CTG 41 AFE NO. _____
 REPORT NO. 41 DATE 17 July
 TOTAL RIG DAYS 41 TIME FROM SPUD _____
 DEPTH @ 2400 HRS. 2708 FOOTAGE DRLD. 114
 HRS. DRILLED 23 1/2 HRS. TRIPPED _____
 HRS. OTHER 12 COOLING TOWER IN USE, YES NO
 MUD WT. 8.7 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 101 °F. DEVIATION SURVEYS: _____
2663' MTS Water level 85'

10" CSG _____
 7" CSG. 35
 4 1/2" CSG. 488
 4 1/2" CSG. 526 temp
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>6</u>	<u>CHR5</u>	<u>MC</u>	<u>652460</u>			<u>2336</u>	<u>TWC</u>	<u>372</u>	<u>9 1/2</u>	<u>1000</u>	<u>400</u>	<u>B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>175</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO L RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:
Cored from 2594 to 2708'
Recovered 114' on 100% cores
No drilling fluid returns.

COSTS

TANGIBLES
 CASING _____
 VALVES _____
 FLANGES _____
 OTHER _____

INTANGIBLE
 LOCATION _____
 RIG MOVES _____
 RIG 5
\$ 5348
 ABATEMENT _____
 BITS _____
 DRILL EQUIP. MAINT. _____
 DRILL. EQUIP. RENTAL 300
 FUEL, WATER POWER _____
 MUD 350
 SUPERVISION & LABOR 300
 CEMENT SERVICES _____
 TRANSPORTATION _____
 LOGGING SERVICES 330
 FISHING & DIRECTIONAL _____
 OTHER 250

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coming at 2733'

DAILY TOTAL 6878
 FORWARD 196.075
 ACCU. TOTAL \$ 7021.953
 AFE 86-101 4360-07

2018 July
Barney

THERMAL POWER COMPANY

WELL NO. CTGH-1 AFE NO. _____
 REPORT NO. 42 DATE 18 July 86
 TOTAL RIG DAYS 42 TIME FROM SPUD 42 + 10 hrs
 DEPTH @ 2400 HRS. 2809 FOOTAGE DRLD. 101
 HRS. DRILLED 24 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 103 °F. DEVIATION SURVEYS: _____
AT 2802'

10^{3/4}" CSG. 35
 7^{1/2}" CSG. 488
 4^{1/2}" CSG. 526 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
<u>D</u>	<u>5.937</u>	<u>CHRCO</u>	<u>ML</u>	<u>152460</u>		<u>2336</u>	<u>Inc</u>	<u>473</u>	<u>115 1/2</u>	<u>1000</u>	<u>400</u>	I B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>225</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored 101', from 2708' to 2809'
Got 100% core recovery; no dulling
fluid returns

COSTS	
TANGIBLES	
CASING	
VALVES	
FLANGES	
OTHER	
INTANGIBLE	
LOCATION	
RIG MOVES	
RIG	<u>\$ 4681</u>
ABATEMENT	
BITS	
DRILL EQUIP. MAIN.	
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	
MUD	<u>350</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	
TRANSPORTATION	
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	
OTHER	<u>250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coring at 2831'. Some rod chatter

INOPERATIVE EQUIPT. EXPLAIN

DAILY TOTAL 6211
 FORWARD 202,953
 ACCU. TOTAL \$ 209,164
 AFE 86-01-4300-02

John Bowden
 BOWDEN

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 43 DATE 19 JULY 1980
 TOTAL RIG DAYS 43 TIME FROM SPUD 420 + 10 hrs
 DEPTH @ 2400 HRS. 2912' FOOTAGE DRLD. 103'
 HRS. DRILLED 24 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 114 °F. DEVIATION SURVEYS: _____
 MCT AT 2903'

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 526 temporary

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>6</u>	<u>3.931"</u>	<u>CHRIS</u>	<u>MC</u>	<u>1654260</u>		<u>2536'</u>	<u>-</u>	<u>576</u>	<u>139</u>	<u>100</u>	<u>400</u>	T B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>575</u>	<u>300</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 2809 to 2912'
Recovered 100% cores from the
103-foot interval
No drilling fluid returns

COSTS

TANGIBLES	
CASING	
VALVES	
FLANGES	
OTHER	
INTANGIBLE	
LOCATION	
RIG MOVES	
RIG	<u>30 4774</u>
ABATEMENT	
BITS	
DRILL EQUIP. MAIN.	
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	
MUD	<u>350</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	
TRANSPORTATION	
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	
OTHER	<u>BOYLES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coming at 2933' No rod chatter.

DAILY TOTAL \$ 16304
 FORWARD \$ 209169
 ACCU. TOTAL 215,468
 AFE 86-0014300-02

DD 20 July
BRODIE

THERMAL POWER COMPANY

WELL NO. CTGH#1 AFE NO. _____
 REPORT NO. 44 DATE 7/20/86
 TOTAL RIG DAYS 44 TIME FROM SPUD 43 D + 10 hrs
 DEPTH @ 2400 HRS. 2980 FOOTAGE DRLD. 68'
 HRS. DRILLED 15 HRS. TRIPPED _____
 HRS. OTHER 9 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: MRT 2942, 112°, read level @ 63'

CSG. 10 3/4, set @ 35'
 " CSG. 7" set - 488'
 " CSG. _____

LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>6</u>	<u>2 9/32</u>	<u>CHRISTEN NC</u>		<u>652460</u>		<u>2836</u>	<u>In Comp</u>	<u>644</u>	<u>144.5</u>	<u>1000</u>	<u>400</u>	<u>I P G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>I P G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>I P G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>	_____	_____	_____	<u>5-15</u>	<u>300</u>	_____	_____	_____

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO _____ RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE ^{HIGH AVERAGE LOG} _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cores from 2912 to 2980, No mud
returns. Core recovery 100%. 1 hr
MRT Summary and fluid level
8 hrs drilling w/ N core at bottom,
get it out of the rods.
lost 4 feet of core out of
inner barrel

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coring at 2993'

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>3/52</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>350</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	_____
FISHING & DIRECTIONAL	_____
OTHER	<u>supervisor - 250</u>
	<u>2-Geologists - 330</u>
DAILY TOTAL	<u>4682</u>
FORWARD	<u>215,468</u>
ACCU. TOTAL	<u>220,150</u>
AFE	_____

INOPERATIVE POLYMER FLUID LOSS

THERMAL POWER COMPANY

WELL NO. CTGH-1 AFE NO. _____
 REPORT NO. 45 DATE 7-21-86
 TOTAL RIG DAYS 45 TIME FROM SPUD 44+10hr.
 DEPTH @ 2400 HRS. 3069 FOOTAGE DRLD. 89
 HRS. DRILLED 24 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 9.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: 3059' - 119° F M RT

CSG. 10 3/4" - 35'
 " CSG. _____
 " CSG. 7" - 488'
 " CSG. cont to surf.

LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>6</u>	<u>3.937</u>	<u>Chr.</u>	<u>NC</u>	<u>652400</u>	<u>—</u>	<u>2336</u>	<u>inc</u>	<u>733</u>	<u>178.5</u>	<u>1000</u>	<u>400</u>	<u>I B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>250</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO L RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____
 STEAM ENTRIES, DEPTH, LBS. _____ HIGH AVERAGE LOG _____

REMARKS FOR 24 HOUR PERIOD:
Cored 2980' - 3069'
no mud returns
100% recovery

	COSTS
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>4501</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>350</u>
SUPERVISION & LABOR	<u>300 / Boyle Bros 250</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	_____
FISHING & DIRECTIONAL	_____
OTHER	<u>geologists - 330</u>
DAILY TOTAL	<u>6031</u>
FORWARD	<u>220,150</u>
ACCU. TOTAL	<u>226,181</u>
AFE	

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coring @ 3089

(R.K.B.)
(224)

THERMAL POWER COMPANY

WELL NO. CTGH-1 AFE NO. _____
 REPORT NO. 46 DATE 7-22-86
 TOTAL RIG DAYS 46 TIME FROM SPUD 45+10 hr
 DEPTH @ 2400 HRS. 3173 FOOTAGE DRLD. 109
 HRS. DRILLED 24 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: MRT @ .3159 - .124°

CSG _____
 * CSG. _____
 * CSG. _____
 * CSG. _____

LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>6</u>	<u>3.937</u>	<u>Chr</u>	<u>NC</u>	<u>652460</u>		<u>2336</u>	<u>inc</u>	<u>837</u>	<u>402.5</u>	<u>1000</u>	<u>400</u>	<u>T P G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>575</u>	<u>175</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO L RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

water level 80 feet
Cored 3069-3173'
No mud returns
100% recovery

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>5388</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>350</u>
SUPERVISION & LABOR	<u>300</u> Boyle Bros 250
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	_____
FISHING & DIRECTIONAL	_____
OTHER	<u>Geologists 330</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coring @ 3189

DAILY TOTAL	<u>6918</u>
FORWARD	<u>226,181</u>
ACCU. TOTAL	<u>233,099</u>
AFE	<u>(224)</u>

INCREASING EQUIPMENT COSTS

THERMAL POWER COMPANY

WELL NO. CTGH-1 AFE NO. _____
 REPORT NO. 47 DATE 22 July 1986
 TOTAL RIG DAYS 41 TIME FROM SPUD 420 + 11 hrs
 DEPTH @ 2400 HRS. 3269 FOOTAGE DRLD. 96
 HRS. DRILLED 24 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 131 °F. DEVIATION SURVEYS: _____
 MRT AT 3259

10 3/4" CSG. 35'
 7" CSG. 488
 4 1/2" CSG. 526 temporary

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
<u>10</u>	<u>5.937</u>	<u>CHRIS</u>	<u>MC</u>	<u>162460</u>		<u>2336</u>	<u>INC</u>	<u>933</u>	<u>226</u>	<u>1000</u>	<u>480</u>	<u>T B G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>T B G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>T B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>	_____	_____	_____	<u>5-15</u>	<u>185</u>	_____	_____	_____

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE WIB AVERAGE LG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cord from 3173 to 3269'
Got 100% core recovery; no
drilling fluid returns
Liquid level in spot borehole
at 60' depth.

COSTS	
TANGIBLES	_____
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	_____
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 4973</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>350</u>
SUPERVISION & LABOR	_____
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>BOXES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coming at 3290'

DAILY TOTAL 6503
 FORWARD 233,099
 ACCU. TOTAL 239,602
 AFE 86 DOT 4200 02

Allen
2/2/86
BOWDEN

THERMAL POWER COMPANY

WELL NO. CT-67-1 AFE NO. _____
 REPORT NO. 48 DATE 24 July 1986
 TOTAL RIG DAYS 48 TIME FROM SPUD 470 + 104.25
 DEPTH @ 2400 HRS. 3355 FOOTAGE DRLD. 86
 HRS. DRILLED 22 1/2 HRS. TRIPPED _____
 HRS. OTHER 1 1/2 HRS. REPAIR _____ RIG NO. _____
 MUD WT. 8.4 VIS. 45 COOLING TOWER IN USE, YES NO
 P.V. 15 GELS 4 W.L. 12 CK. 1/32 PH 6.5 CHL 1000 YP 10
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 176 °F. DEVIATION SURVEYS: _____
3350

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 526 Temporary
 LINER _____
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>10</u>	<u>3.937</u>	<u>UNGS</u>	<u>MC</u>	<u>652460</u>		<u>2336</u>	<u>TWC</u>	<u>1019</u>	<u>249</u>	<u>1000</u>	<u>400</u>	<u>I B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>150</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 3269 to 3355 feet

Obtained 100% core recovery;

no drilling fluid returns

Water level in corehole is 80 feet

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 4543</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>BOYLES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Logging at 3382 feet

DAILY TOTAL	<u>6025</u>
FORWARD	<u>759,602</u>
ACCU. TOTAL	<u>\$ 745,625</u>
AFE <u>86.001</u>	<u>4300.02</u>

*DD-257
BOWEN*

THERMAL POWER COMPANY

WELL NO. CTB 1 AFE NO. _____
 REPORT NO. 49 DATE 25 July 1980
 TOTAL RIG DAYS 49 TIME FROM SPUD 48 D + 12 hrs
 DEPTH @ 2400 HRS. 3461 FOOTAGE DRLD. 106
 HRS. DRILLED 24 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 127 °F. DEVIATION SURVEYS: _____
 MRT 3451

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 526 temporary

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
10	5.937	CHRG	MC	2460		2336	TIC	126	273	100		T B G
												T B G
												T B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
1				575		200		

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____ HIGH AVERAGE LEN. _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Drilled 106 feet from 3355 to 3461

Got 100% core recovery; no mud returns

Breakhole water level at 70 feet

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 5492</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:

Drilling below 3483 feet

DAILY TOTAL 6912
 FORWARD 3245,628
 ACCU. TOTAL 257,597
 AFE 86201 4300 02

*20-26 July
BOWDEN*

THERMAL POWER COMPANY

WELL NO. CTG H-1 AFE NO. _____
 REPORT NO. 50 DATE 26-JULY-1986 3/4
 TOTAL RIG DAYS 30 TIME FROM SPUD 490 & 10 7
 DEPTH @ 2400 HRS. 3562 FOOTAGE DRLD. 101 4.5
 HRS. DRILLED 73 1/2 HRS. TRIPPED _____ LINER _____
 HRS. OTHER 12 HRS. REPAIR _____ TIE-BACK _____
 MUD WT. 8.8 VIS. 45 COOLING TOWER IN USE, YES NO RIG NO. _____
 P.V. _____ GELS _____ W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 GALVONIC PROBE _____ CORRATOR _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 FORM. DRLD. _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 MAX. TEMP. 131 °F. FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 DEVIATION SURVEYS: MET 3547

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>10</u>	<u>3.875</u>	<u>DHRG</u>	<u>HC</u>	<u>1252460</u>		<u>2336</u>	<u>1227</u>		<u>296</u>	<u>1000</u>	<u>400</u>	<u>I R G</u>
												<u>I R G</u>
												<u>I R G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>575</u>	<u>350</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO L RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LEN. _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 3461 to 3562 feet
Got 100% core recovery
no drilling fluid returns

Control water level at 10 feet

COSTS	
TANGIBLES	
CASING	
VALVES	
FLANGES	
OTHER	
INTANGIBLE	
LOCATION	
RIG MOVES	
RIG	<u>\$ 5723</u>
ABATEMENT	
BITS	
DRILL EQUIP. MAIN.	
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	
TRANSPORTATION	
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	
OTHER	<u>BOXES 250</u>
DAILY TOTAL	<u>7203</u>
FORWARD	<u>4 252,997</u>
ACCU. TOTAL	<u>299,800</u>
AFE	<u>80201 4300 02</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Cooring at 3582 feet

DO 27 July
Gooden

THERMAL POWER COMPANY

WELL NO. CTG H-1 AFE NO. _____
 REPORT NO. 31 DATE 21 JULY 1980
 TOTAL RIG DAYS 31 TIME FROM SPUD 5:25 10:45
 DEPTH @ 2400 HRS. 3641 FOOTAGE DRLD. 79
 HRS. DRILLED 21 HRS. TRIPPED _____
 HRS. OTHER 3 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 4 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 138 °F. DEVIATION SURVEYS: 3300' 3/4" N16°N
 MCT AT 3641

10^{3/4}" CSG. 35
 7^{1/2}" CSG. 488
 6^{1/2}" CSG. 526 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
<u>12</u>	<u>3.937</u>	<u>CHRS</u>	<u>NC</u>	<u>652460</u>	<u>-</u>	<u>7336</u>	<u>-</u>	<u>1306</u>	<u>27.5</u>	<u>100</u>	<u>460</u>	<u>P G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>T R G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>T R G</u>

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____ HIGH AVERAGE LBS. _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored 79 feet, from 3562 to 3641 feet. 100% core recovery.

No mud returns

Corehole water level at 90 feet

COSTS	
TANGIBLES	_____
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	_____
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 476.3</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>350</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>CONCRETE 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:

Logging at 3661 feet

DAILY TOTAL 9 624.3
 FORWARD 250.800
 ACCU. TOTAL 766,043
 AFE 86,001 4,200.02

10-28-80
 BOWDEN

THERMAL POWER COMPANY

WELL NO. CTG 1 AFE NO. _____
 REPORT NO. 52 DATE 28 July 1980
 TOTAL RIG DAYS 52 TIME FROM SPUD 510 + 10 hrs
 DEPTH @ 2400 HRS. 3721 FOOTAGE DRLD. 80
 HRS. DRILLED 23 HRS. TRIPPED _____
 HRS. OTHER 1 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 137 °F. DEVIATION SURVEYS: _____
 . MRT AT 3711

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 326 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>0</u>	<u>5.931</u>	<u>CHRS</u>	<u>MC</u>	<u>152460</u>		<u>2336</u>	<u>3721</u>	<u>135</u>	<u>340 1/2</u>	<u>1000</u>	<u>400</u>	<u>1/3</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>515</u>	<u>350</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LCA _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored 80 feet, from 3641 to 3721 feet.

Got 100% core recovery; no

drilling fluid returns

Water level in crevice is 65 feet

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 4821</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>ENTER 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:

Sup for new diamond corehead,

and new core barrel at 3721

DAILY TOTAL 6301
 FORWARD 266,043
 ACCU. TOTAL \$ 272,344
 AFE 86,901 4,300.02

[Signature]
 29 July
 BOWDEN

THERMAL POWER COMPANY

WELL NO. CTGHT 1 AFE NO. _____
 REPORT NO. 53 DATE 29-July-1980
 TOTAL RIG DAYS 53 TIME FROM SPUD 520+10 HRS
 DEPTH @ 2400 HRS. 3723 FOOTAGE DRLD. 2
 HRS. DRILLED 1 HRS. TRIPPED _____
 HRS. OTHER 23 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. None °F. DEVIATION SURVEYS: _____

1034
 "CSG. 35
 "CSG. 488
 "CSG. 526 Temporary
 LINER _____
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>7</u>	<u>3.937</u>	<u>Carls</u>	<u>MC</u>	<u>652958</u>		<u>3721</u>		<u>2</u>	<u>1</u>	<u>1000</u>	<u>400</u>	T B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>550</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE ^{HIGH AVERAGE LOG} _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored only 2' (3721-23) with
new 3.937" corehead
Ran new corehead - bit no. 7,
corehead, latch couple and
slammer shell
RH Washed 800 to 965' interval
and chased casing to bottom
Worked BOP equipment

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 1982</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>TOOLS 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coring at 3743'

DAILY TOTAL 3402
 FORWARD \$ 272,304
 ACCU. TOTAL \$ 275,806
 AFE 86-201-4300-02

THERMAL POWER COMPANY

WELL NO. CTG14-1 AFE NO. _____
 REPORT NO. 53 DATE 31 JULY 1986
 TOTAL RIG DAYS 53 TIME FROM SPUDS 540 HOURS
 DEPTH @ 2400 HRS. 3901 FOOTAGE DRLD. 90
 HRS. DRILLED 23 HRS. TRIPPED _____
 HRS. OTHER 1 COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH _____ CHL _____ YP _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 153 °F. DEVIATION SURVEYS: _____
 . MRT AT 3891'

10^{3/4}" CSG. 35
 7^{1/2}" CSG. 488
 4^{1/2}" CSG. 320 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>7</u>	<u>3.951"</u>	<u>CHRIS</u>	<u>MC</u>	<u>652958</u>		<u>3721</u>	<u>INC</u>	<u>180</u>	<u>475</u>	<u>1000</u>	<u>400</u>	<u>I P G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>I P G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>I P G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>	_____	_____	_____	_____	_____	_____	_____	_____

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:
Core 90 feet from 3811 to 3901 feet
Got 100% core recovery; no
drilling fluid returns

COSTS	
TANGIBLES	_____
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	_____
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 4787</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAINT.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>BYE 750</u>
DAILY TOTAL	<u>\$ 6267</u>
FORWARD	<u>286907</u>
ACCU. TOTAL	<u>288174</u>
AFE	<u>80201 4300-02</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Drum at 3921'

DD King
Parsons

THERMAL POWER COMPANY

WELL NO. CTGH AFE NO. _____
 REPORT NO. 510 DATE 11/27/86
 TOTAL RIG DAYS 56 TIME FROM SPUD SSD + 10 HRS
 DEPTH @ 2400 HRS. 3482 FOOTAGE DRLD. 81
 HRS. DRILLED 23 HRS. TRIPPED _____
 HRS. OTHER 1 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 162 °F. DEVIATION SURVEYS: _____
MRT AT 3972

1030" CSG 35
 " CSG. _____
 " CSG. 488
 " CSG. 526 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>7</u>	<u>3 1/2</u>	<u>CHRS</u>	<u>MC</u>	<u>152958</u>	<u>-</u>	<u>3721</u>	<u>-</u>	<u>761</u>	<u>10.5</u>	<u>1000</u>	<u>4000</u>	<u>B G</u>
	<u>3.937</u>											<u>I B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>350</u>			

AIR COMP. NO. _____ CFM. _____ PSI. _____ TEMP. °F. _____ CHEM. _____ RATIO L RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Coed 81 feet from 3401 to 3482 feet

Recovered 100%; no drilling fluid

Returns

Water level in covehole at 75'

below surface

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 4880</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>RYLES 250</u>
DAILY TOTAL	<u>\$ 10360</u>
FORWARD	<u>288174</u>
ACCU. TOTAL	<u>294,534</u>
AFE 86.1201	<u>4300.02</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:

Crang at 4002 feet

DD-200g
LOWERY

THERMAL POWER COMPANY

WELL NO. CTG4 1
 REPORT NO. 57 DATE 2 AUG 86
 TOTAL RIG DAYS 57 TIME FROM SPUD 8:00 AM
 DEPTH @ 2400 HRS. 4062 FOOTAGE DRLD. 80
 HRS. DRILLED 23 HRS. TRIPPED _____
 HRS. OTHER 1 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 46 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H, O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 167 °F. DEVIATION SURVEYS: _____
NKT AT 4052

10³⁴ CSG 35
 7¹⁵ CSG 488
 5²⁶ CSG 526 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>7</u>	<u>3.937</u>	<u>CHRS</u>	<u>HP</u>	<u>052058</u>	<u>-</u>	<u>3721</u>	<u>-</u>	<u>341</u>	<u>93</u>	<u>1800</u>	<u>400</u>	<u>I P G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>I P G</u>
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	<u>I P G</u>

PUMP LINER STROKE SPM 'GPM PSI TOTAL GPM NOZZLE VEL. ANNULUS VEL.
1 _____ _____ 572 352 _____ _____ _____
 AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:
Cored 80 feet, from 3982 to 4062 feet
Got 100% core/recovery. No mud
returns
Water level at 70 feet below
seafloor

COSTS	
TANGIBLES	_____
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	_____
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 5379</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>PEOPLES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coming at 4083 feet

DAILY TOTAL \$ 6859
 FORWARD 294,534
 ACCU. TOTAL \$ 301,393
 AFE 86 001 4300.02

DO STAY
 HAWERY

THERMAL POWER COMPANY

WELL NO. C1641 AFE NO. _____
 REPORT NO. 58 DATE 3 AUG 80
 TOTAL RIG DAYS 58 TIME FROM SPUD 570 + 10 HRS
 DEPTH @ 2400 HRS. 4143 FOOTAGE DRLD. 81
 HRS. DRILLED 73 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 43 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 167 °F. DEVIATION SURVEYS: _____
 NET 4133

1034 CSG 35
 7 CSG 488
 45 CSG 526 Temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
1	3.931	CHRS	NC	652458	-	3721	-	422	116.5	1000	400	I R G
												I R G
												I R G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
1				5-15	350			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO _____ RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored 81 feet, from 4062 to 4143 feet. Obtained 100% core recovery; see mud returns
 Water level in well at 75 feet below ground surface

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	\$ 5609
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	300
FUEL, WATER POWER	_____
MUD	300
SUPERVISION & LABOR	300
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	330
FISHING & DIRECTIONAL	_____
OTHER	BOYLES 250
DAILY TOTAL	1089
FORWARD	301,393
ACCU. TOTAL	308,482
AFE	2001 4300 02

OPERATION @ 0600 HOURS FOLLOWING DAY:
 Dring at 4163 feet

D. H. HAWKINS
 LOWERY

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 59 DATE 4 AUG 86
 TOTAL RIG DAYS 39 TIME FROM SPUD 580 + 10 HRS
 DEPTH @ 2400 HRS. 4203 FOOTAGE DRLD. 60
 HRS. DRILLED 13.5 HRS. TRIPPED _____
 HRS. OTHER 10.3 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ DXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 171 °F. DEVIATION SURVEYS: _____
 .NRT AT 4173

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 525 temporary

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>7</u>	<u>3.957</u>	<u>CHRS</u>	<u>ML</u>	<u>652958</u>	<u>-</u>	<u>3721</u>	<u>-</u>	<u>482</u>	<u>130</u>	<u>1000</u>	<u>400</u>	<u>T B G</u>
												<u>T B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>575</u>	<u>350</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO _____ RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOW _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored 60 feet, from 4143 to 4203 feet
Recovered 100% cores; no mud returns
Sudden failure of HX core rods, while coring at 4203'
Core rod string weight suggests break at 1000-1200' depth range.

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 4187</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>300</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>REVIES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Waiting on HX rods for fishing
then with spear.

DAILY TOTAL \$ 5667
 FORWARD 308,482
 ACCU. TOTAL \$ 314,149
 APR 10 1986 4,000.02

Handwritten signature: D. S. Long
 1 DWERY

THERMAL POWER COMPANY

WELL NO. CTGlt-1 AFE NO. _____
 REPORT NO. 62 DATE 7/11/86
 TOTAL RIG DAYS 62 TIME FROM SPUD _____
 DEPTH @ 2400 HRS. 4203 FOOTAGE DRLD. _____
 HRS. DRILLED _____ HRS. TRIPPED 10
 HRS. OTHER 10 & 4 COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

10 3/4" CSG. 35
 4 1/2" CSG. 488
 4 1/2" CSG. 526 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
												T P G
												T P G
												T P G
PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.				

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:
 12 hrs: Shut down; waiting on NX rods
 12 hrs Unloaded truck
 Picked up NX rods; RTH open ended. Found break in NX rods at 823' depth and at a connection per duffler's record
 PTH, picked up logging assembly

COSTS

TANGIBLES	
CASING	
VALVES	
FLANGES	
OTHER	
INTANGIBLE	
LOCATION	
RIG MOVES	
RIG	<u>1500</u>
ABATEMENT	
BITS	
DRILL EQUIP. MAINT.	
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	
MUD	
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	
TRANSPORTATION	
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	
OTHER	<u>more 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
 Running in hole at 2500' with NX rods and logging assembly

DAILY TOTAL 2600
 FORWARD 316,809
 ACCU. TOTAL 319,409
 AFE 86 D01 4300 02

20.8 Aug
 BOWDEN

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 63 DATE 8 Nov 86
 TOTAL RIG DAYS 103 TIME FROM SPUD 1720 + 10 hrs
 DEPTH @ 2400 HRS. 4203 FOOTAGE DRLD. _____
 HRS. DRILLED _____ HRS. TRIPPED _____
 HRS. OTHER 24 COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 526 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
												T P G
												T P G
												T P G
PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.				

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LEN _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Ran latching assembly on
 WCC rods to top of core barrel
 at 4193 feet. Latched?
 P.O.H. No core barrel.
 Examined latch assembly,
 suspect release of core barrel
 at 823 feet

COSTS	
TANGIBLES	
CASING	
VALVES	
FLANGES	
OTHER	
INTANGIBLE	
LOCATION	
RIG MOVES	
RIG	\$ 3000
ABATEMENT	
BITS	
DRILL EQUIP. MAIN.	
DRILL. EQUIP. RENTAL	300
FUEL, WATER POWER	
MUD	
SUPERVISION & LABOR	300
CEMENT SERVICES	
TRANSPORTATION	
LOGGING SERVICES	330
FISHING & DIRECTIONAL	
OTHER	COCKES 250

OPERATION @ 0600 HOURS FOLLOWING DAY:
 Rig shut down: Latching
 assembly going to mechanics shop
 for modification.

DAILY TOTAL 74180
 FORWARD 310,489
 ACCU. TOTAL 323,669
 AFE 86 DOL 4300 02

R.D. King
 BOWDEN

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 64 DATE Aug 86
 TOTAL RIG DAYS 64 TIME FROM SPUD 6:30 + 10 hrs
 DEPTH @ 2400 HRS. 4703 FOOTAGE DRLD. _____
 HRS. DRILLED _____ HRS. TRIPPED _____
 HRS. OTHER 24 COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-M, D RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

1034 CSG. 35
 7 CSG. 488
 45 CSG. 326 temporary
 LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
												T P G
												T P G
												T P G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE ^{HIGH AVERAGE LOW} _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:
 Started up rig at noon
 RTH with new latch; found
 core barrel at 4193 feet
 Latched to core barrel. PDIH ready
 Recovered core barrel

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	\$ 1500
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	300
FUEL, WATER POWER	_____
MUD	_____
SUPERVISION & LABOR	300
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	330
FISHING & DIRECTIONAL	_____
OTHER	TRUCKS 250

OPERATION @ 0600 HOURS FOLLOWING DAY:
 RTH with new NX core head

DAILY TOTAL	2680
FORWARD	373,669
ACCU. TOTAL	376,349
AFE 80000	4300 02

NO. 10 day
 BOWDEN

THERMAL POWER COMPANY

WELL NO. CTGH-1 AFE NO. _____
 REPORT NO. 65 DATE 10 Aug 86
 TOTAL RIG DAYS 65 TIME FROM SPUD 467+10 hrs
 DEPTH @ 2400 HRS. 4226 FOOTAGE DRLD. 23'
 HRS. DRILLED 4 HRS. TRIPPED _____
 HRS. OTHER 20 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

CSG _____
 * CSG. _____
 * CSG. _____
 * CSG. _____

LINER _____
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
8	2.875"	CHRox	NX	052302		4203	4226	23	4	500	300	T P G
												T P G
												T P G

worn

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
1				5-15	600-800			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

*Milled out NX diamond corehead on bottom with NX diamond corehead (bit 8) and cored to 4226'.
 Recovered 100% core; had returns!
 P.O.H. to replace worn bit 8*

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 3057</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>250</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>BOYLES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
RH with new NX diamond core head and new core barrel

DAILY TOTAL 4487
 FORWARD 326,349
 ACCU. TOTAL 330,836
 AFE 86 001 4300 02

*DD 11 Aug
 Borden*

THERMAL POWER COMPANY

WELL NO. CTG11-1 AFE NO. _____
 REPORT NO. 60 DATE 11 Nov 86
 TOTAL RIG DAYS 66 TIME FROM SPUD 6:50 + 10 hrs
 DEPTH @ 2400 HRS. 4279 FOOTAGE DRLD. 53
 HRS. DRILLED 13.5 HRS. TRIPPED _____
 HRS. OTHER 10.5 COOLING TOWER IN USE, YES NO
 MUD WT. 8.5 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H, D RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 178 °F. DEVIATION SURVEYS: _____
AT 42910'

10²⁴ CSG _____ 35.
 " CSG. _____ 488'
 " CSG. _____ 526'
 LINER 3.5 4205'
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>9</u>	<u>2.875</u>	<u>Caros</u>	<u>NX</u>	<u>65301</u>		<u>4226</u>	<u>-</u>	<u>53</u>	<u>13.5</u>	<u>1000</u>	<u>400</u>	I P G
												I P G
												I P G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>T</u>				<u>5-15</u>	<u>450</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO L RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____ HIGH AVERAGE LEN. _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 4226 feet to 4279 feet.
Obtained 100% core recovery;
no drilling fluid returns
Liquid level in core hole is
70 feet below surface

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 3545</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>200</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>BOYLES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:

Bring NX hole at 4300 feet

DAILY TOTAL \$ 4975
 FORWARD 330.836
 ACCU. TOTAL 335.769
 AFE 86 D01 4300 02

DO. 12 Aug
 BOWDEN

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 67 DATE 12 Nov 86
 TOTAL RIG DAYS 67 TIME FROM SPUD 12:00
 DEPTH @ 2400 HRS. 4371 FOOTAGE DRLD. 92
 HRS. DRILLED 23 HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 85 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H, D RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 182 °F. DEVIATION SURVEYS: _____
MRT AT 4383

10 1/4" CSG.	35
7 1/2" CSG.	488
4.5" CSG.	326
LINER 2.5"	4203
TIE-BACK	

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS. WT.	RPM	COND.
9	2 1/2	CHRS	NX	652301		4226		147	36.5	1000	4000
											T B G
											T B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
T				5-15	450			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored 92 feet from 4279 to 4371 feet
 Obtained 100% core recovery.
 No drilling fluid returns

	COSTS
TANGIBLES	
CASING	
VALVES	
FLANGES	
OTHER	
INTANGIBLE	
LOCATION	
RIG MOVES	
RIG	\$ 6170
ABATEMENT	
BITS	
DRILL EQUIP. MAIN.	
DRILL. EQUIP. RENTAL	300
FUEL, WATER POWER	
MUD	700
SUPERVISION & LABOR	300
CEMENT SERVICES	
TRANSPORTATION	
LOGGING SERVICES	330
FISHING & DIRECTIONAL	
OTHER	250

OPERATION @ 0600 HOURS FOLLOWING DAY:
 Coring NX hole at 4390'

DAILY TOTAL	7550
FORWARD	9 335,761
ACCU. TOTAL	9 243,211
AFE	82 201 4300 02

D. J. Borden
 13 Aug
 BORDEN

THERMAL POWER COMPANY

WELL NO. CT64-1 AFE NO. _____
 REPORT NO. 68 DATE 13 Aug 86
 TOTAL RIG DAYS 68 TIME FROM SPUD 68 D 10A
 DEPTH @ 2400 HRS. 4450 FOOTAGE DRLD. 79
 HRS. DRILLED 23 HRS. TRIPPED _____
 HRS. OTHER 1 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS. _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 183 °F. DEVIATION SURVEYS: _____
 @ 4470' Fluid level = 60'

10 1/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 526
 LINER 3.5" 4205'
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
<u>9</u>	<u>2 3/8"</u>	<u>Chis</u>	<u>NX</u>	<u>652301</u>		<u>4226</u>	<u>---</u>	<u>226</u>	<u>59.5</u>	<u>500</u>	<u>300-400</u>	<u>T B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>650</u>			

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE ^{HIGH AVERAGE LOG} _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 4371 to 4450' - No
fluid returns, 100% core recovery
Picked up torque at 4405-4407', attempting
to improve mud system
Worked BOP and pipe runs.

COSTS

TANGIBLES	
CASING	
VALVES	
FLANGES	
OTHER	
INTANGIBLE	
LOCATION	
RIG MOVES	
RIG	
ABATEMENT	
BITS	<u>5315</u>
DRILL EQUIP. MAIN.	
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	
MUD	<u>200</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	
TRANSPORTATION	
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	
OTHER <u>ROYLES SUP.</u>	<u>250</u>
<u>T RUCKING</u>	<u>2400</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coring @ 4470'
 OPERATING EQUIPMENT _____

DAILY TOTAL 9095
 FORWARD 343 311
 ACCU. TOTAL 352 406
 AFE Residen / SLI

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 6A DATE 14 AUG 86
 TOTAL RIG DAYS 6A TIME FROM SPUD 10 HRS
 DEPTH @ 2400 HRS. 4530 FOOTAGE DRLD. 80
 HRS. DRILLED 23.5 HRS. TRIPPED _____
 HRS. OTHER 0.5 COOLING TOWER IN USE, YES NO
 MUD WT. 8.5 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 182 °F. DEVIATION SURVEYS: _____
MRK AT 4540

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 526
 LINER 3.5" 4205
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
<u>9</u>	<u>2.875</u>	<u>CHRIS</u>	<u>NX</u>	<u>652301</u>		<u>4226</u>	<u>-</u>	<u>306</u>	<u>85</u>	<u>1000</u>	<u>400</u>	T P G
												T P G
												T P G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>					<u>350-650</u>			

AIR COMP. NO. _____ CFM. _____ PSI. _____ TEMP. °F. _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LCM _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored 80' from 4450 to 4530'
Got 100% core recovery; no mud
returns.
Squirrel Creek water supply
continues adequate yield; enough
to keep 500 barrel Baker tank full
and to meet daily rig-coring
requirement.
Forest Service visits drill site every
2-3 days to ensure our water
supply status and fire compliance.

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 5320</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>200</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>BORES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:
Coring at 4550 feet

INOPERATIVE EQUIPT. EXPLAIN _____

DAILY TOTAL 6700
 FORWARD 352,406
 ACCU. TOTAL 359,106
 AFE 86 601 4300 0
 SUPERVISOR Bowden

NO. 158

THERMAL POWER COMPANY

WELL NO. CTG14-1 AFE NO. _____
 REPORT NO. 70 DATE 15 AUG 86
 TOTAL RIG DAYS 10 TIME FROM SPUD 620 * 10 hrs
 DEPTH @ 2400 HRS. 4620 FOOTAGE DRLD. 90
 HRS. DRILLED 22.5 HRS. TRIPPED _____
 HRS. OTHER 1.5 COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 184 °F. DEVIATION SURVEYS: _____
MRT AT 4630

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 520
 LINER 3.5 4205
 TIE-BACK _____

4620

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
<u>9</u>	<u>2 1/8</u>	<u>CHRS</u>	<u>NX</u>	<u>1052301</u>		<u>1726</u>		<u>396</u>	<u>106 1/2</u>	<u>1000</u>	<u>400</u>	<u>B G</u>
												<u>I B G</u>
												<u>I B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>300</u>			

AIR COMP. NO. _____ CFM. _____ PSI. _____ TEMP. °F. _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 45306 4620'
Obtained 100% core recovery;
no drilling fluid returns

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>B6347</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>200</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>BOYLES 250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:

Coring at 4640'

INOPERATIVE EQUIP'T. EXPLAIN _____

DAILY TOTAL	<u>\$7847</u>
FORWARD	<u>359,106</u>
ACCU. TOTAL	<u>366,953</u>
AFE	<u>86 0001 4300 02</u>
SUPERVISOR	_____

AD King
BRODEN

THERMAL POWER COMPANY

WELL NO. CTG4-1 AFE NO. _____
 REPORT NO. 71 DATE 10 Nov 86
 TOTAL RIG DAYS 71 TIME FROM SPUD 700+1005
 DEPTH @ 2400 HRS. 4700 FOOTAGE DRLD. 80
 HRS. DRILLED 23 HRS. TRIPPED _____ HRS. REPAIR _____ RIG NO. _____
 HRS. OTHER 1 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 100 °F. DEVIATION SURVEYS: _____
MARK AT 4700 ±

10" CSG _____ 35
 7" CSG. 488
 4.5" CSG. 526
 LINER 3.5 4205
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
<u>4</u>	<u>2.875"</u>	<u>Cores</u>	<u>NIX</u>	<u>65 2201</u>		<u>4226</u>		<u>4700</u>	<u>124.5</u>	<u>1000</u>	<u>400</u>	<u>P G</u>
												<u>T B G</u>
												<u>T B G</u>

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>573</u>	<u>350</u>			

AIR COMP. NO. _____ CFM. _____ PSI. _____ TEMP. °F. _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____ HIGH AVERAGE LGN. _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 4620 to 4700'
Got 100% core recovery
no drilling fluid returns

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 6365</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>200</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>330</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>250</u>

OPERATION @ 0600 HOURS FOLLOWING DAY:

Coming at 4720'

INOPERATIVE EQUIP'T, EXPLAIN _____

DAILY TOTAL \$ 1745
 FORWARD 366,903
 ACCU. TOTAL 374,678
 AFE 86-2001-4300-02
 SUPERVISOR Handwritten

Handwritten signature: RD. 17 Aug

THERMAL POWER COMPANY

WELL NO. CTG 41 AFE NO. _____
 REPORT NO. 72 DATE 17 Nov 80
 TOTAL RIG DAYS 12 TIME FROM SPUD 710 + 1025
 DEPTH @ 2400 HRS. 4760 FOOTAGE DRLD. 62
 HRS. DRILLED 18 HRS. TRIPPED _____
 HRS. OTHER 0 COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX TEMP. 195 °F. DEVIATION SURVEYS: _____
MRT AT 4750'

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 326
 LINER 3.5 4205
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT # SIZE MAKE TYPE SER. NO. JETS IN OUT FT. HRS. WT. RPM COND
9 2.88" CACON NY 1252301 _____ 4226 536 147.5 1000 463 P G
 _____ _____ _____ _____ _____ _____ _____ T B G
 _____ _____ _____ _____ _____ _____ _____ T B G
 PUMP LINER STROKE SPM GPM PSI TOTAL GPM NOZZLE VEL. ANNULUS VEL.
1 _____ _____ 5-75 300 _____ _____ _____ _____
 AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO L RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Cored from 4700 to 4760 feet
Recovered 100% cores; no
drilling fluid returns
1 hr temperature survey
5 hrs recovering and repairing
broken wire line and core
panel.

COSTS

TANGIBLES
 CASING _____
 VALVES _____
 FLANGES _____
 OTHER _____

INTANGIBLE
 LOCATION _____
 RIG MOVES _____
 RIG \$ 4875
 ABATEMENT _____
 BITS _____
 DRILL EQUIP. MAIN. _____
 DRILL. EQUIP. RENTAL 200
 FUEL, WATER POWER _____
 MUD 200
 SUPERVISION & LABOR 300
 CEMENT SERVICES _____
 TRANSPORTATION _____
 LOGGING SERVICES 330
 FISHING & DIRECTIONAL _____
 OTHER 250

OPERATION @ 0600 HOURS FOLLOWING DAY:
Working at 4780 feet
 INOPERATIVE EQUIP'T, EXPLAIN _____

DAILY TOTAL 36185
 FORWARD 371675
 ACCU. TOTAL 380863
 AFE 86 2001 4300 02
 SUPERVISOR BOWDEN

RD. 18

THERMAL POWER COMPANY

WELL NO. CTBH 1 AFE NO. _____
 REPORT NO. 73 DATE 18. AUG 86
 TOTAL RIG DAYS 12 TIME FROM SPUD 120.40 hrs
 DEPTH @ 2400 HRS. 4800 FOOTAGE DRLD. 40
 HRS. DRILLED 12 HRS. TRIPPED _____ HRS. REPAIR _____ RIG NO. _____
 HRS. OTHER 11 COOLING TOWER IN USE, YES NO
 MUD WT. 8.9 VIS. 45 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 147 °F. DEVIATION SURVEYS: _____
MR (at 4790)

10" CSG. 35
 7" CSG. 488
 4.5" CSG. 526
 LINER 5.5 4205
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
<u>9</u>	<u>285</u>	<u>CRAS</u>	<u>NX</u>	<u>652301</u>		<u>4226</u>		<u>576</u>	<u>160 1/2</u>	<u>1000</u>	<u>400</u>	T P G
												T P G
												T P G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>				<u>5-15</u>	<u>300</u>			

AIR COMP. NO. _____ CFM. _____ PSI. _____ TEMP. °F. _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____ HIGH AVERAGE LOG

REMARKS FOR 24 HOUR PERIOD:

Drilled from 4760 to 4800 feet
Obtained 100% core recovery;
no drilling fluid returns
Received Forest Service order
to shut down rig and operations
due to high fire hazards. All
timber logging operations also
shut down today by this
condition & determination
pulled spring string off bottom,
and into HX rods with NX bit
at 450. Closed jaws on MCC rod
string. Huddel and Kelly cock
shut down at mid day Aug 18

OPERATION @ 0600 HOURS FOLLOWING DAY:

Suspended - shut down per OHS
Condition E

INOPERATIVE EQUIPT, EXPLAIN _____

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 3120</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	<u>100</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>300</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>250</u>
DAILY TOTAL	<u>4400</u>
FORWARD	<u>380,863</u>
ACCU. TOTAL	<u>\$ 385,263</u>
AFE	<u>86.1921.4200.02</u>
SUPERVISOR	<u>Kenneth</u>

RD. 19 Aug

THERMAL POWER COMPANY

WELL NO. CTAH-1 AFE NO. _____
 REPORT NO. 74 DATE 27 Aug 86
 TOTAL RIG DAYS 74 TIME FROM SPUD 8:30 + 10 hrs
 DEPTH @ 2400 HRS. 4900 FOOTAGE DRLD. _____
 HRS. DRILLED _____ HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

10 1/4" CSG	35 feet
7" CSG	488
4.5" CSG	526
LINER 3.5"	4205
TIE-BACK	

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
---	---	---	---	---	---	---	---	---	---	---	---	I B G
---	---	---	---	---	---	---	---	---	---	---	---	I B G
---	---	---	---	---	---	---	---	---	---	---	---	I B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
---	---	---	---	---	---	---	---	---

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Prueitt Industries, Inc. ran a temperature-pressure survey from surface to total depth

Field readings are as follows:

DEPTH (ft)	TEMPERATURE (°F)	PRESSURE (PSI)
100	BTL*	22
1000	BTL	420
2100	78	902
3000	120 120	1297
4000	171	1730
4800	210/208	2074

4800 feet pick-up.

* BTL = Below Tool Limit of 500F
 ** Two temperature tools run.

OPERATION @ 0600 HOURS FOLLOWING DAY:
Suspended - shut down per USFS fire hazard condition "E"

COSTS

TANGIBLES
 CASING _____
 VALVES _____

*Prueitt Survey
 Total Costs \$4065
 reported as
 - to be added into
 COSTS*

- TRANSPORTATION _____
- LOGGING SERVICES _____
- FISHING & DIRECTIONAL _____
- OTHER Survey _____

DAILY TOTAL _____
 FORWARD 385,263
 ACCU. TOTAL _____
 AFE 86 D001 4300 02

LI 11/27/86

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 75 DATE 2 SEPT 86
 TOTAL RIG DAYS 75 TIME FROM SPUD _____
 DEPTH @ 2400 HRS. 4800 FOOTAGE DRLD. _____
 HRS. DRILLED _____ HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH _____ CHL _____ YP _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. 204 °F. DEVIATION SURVEYS: _____
Time MRTs at 4800'

1054 CSG. 351
 7" CSG. 488'
 4.5" CSG. 526
 LINER 35 4208
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G
PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.				
_____	_____	_____	_____	_____	_____	_____	_____	_____				

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LOG _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

First Service lifted Fire Precaution Class E on 8-30-86

Loggins crew arrived back on drillsite afternoon of 9-2-86. Started up rig at 2000 hrs.

RH with wireline; found water level at 50-foot depth.

RH with NCC rods - NX bit from 4150' to 4800'. No problems, and no fill on bottom. Ran three MRTs to 4800'; all recorded 204°F

OPERATION @ 0600 HOURS FOLLOWING DAY:
Spot and removed NX bit. Going in hole with open ended NCC rods to circulate & cool hole for final GP
 INOPERATIVE EQUIPT. EXPLAIN *Atch hole loss.*

COSTS

TANGIBLES

CASING _____
 VALVES _____
 FLANGES _____
 OTHER _____

INTANGIBLE

LOCATION _____
 RIG MOVES _____
 RIG _____ ? OMISSION
 ABATEMENT _____
 BITS _____
 DRILL EQUIP. MAIN. _____
 DRILL. EQUIP. RENTAL 4200 ? *of dup & cooling*
 FUEL, WATER POWER _____
 MUD _____
 SUPERVISION & LABOR _____
 CEMENT SERVICES _____
 TRANSPORTATION _____
 LOGGING SERVICES 990 *14,20, 21 and P 3301 day*
 FISHING & DIRECTIONAL _____
 OTHER *Loggins* 750
 WATCHMAN 40.00 *16 hrs 200.00*

DAILY TOTAL _____
 FORWARD 8385.263
 ACCU. TOTAL _____
 AFE 86 5001 4300 02

THERMAL POWER COMPANY

WELL NO. CT6H AFE NO. _____
 REPORT NO. 76 DATE 3 SEPT 86
 TOTAL RIG DAYS 76 TIME FROM SPUD _____
 DEPTH @ 2400 HRS. 4800 FOOTAGE DRLD. _____
 HRS. DRILLED _____ HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 32 W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

10" CSG. 35
 7" CSG. 488
 4.5" CSG. 526
 LINER 3.5" 4205
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
<u>1</u>	_____	_____	_____	<u>5-15</u>	<u>310</u>	_____	_____	_____

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

POH, dropped NX bit from string
ROH with NCE rods open ended to 4800' TD. Circulated light drilling fluid and water for 8 hours to cool hole for logs.
POH rigging up loggers at 2400 hrs

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u>\$ 3000</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	_____
FUEL, WATER POWER	_____
MUD	<u>100</u>
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>4065</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>EXPLS 250</u>

PRUETT
27 AUG 86

OPERATION @ 0600 HOURS FOLLOWING DAY:
Logging corehole with final geophysical program
 INOPERATIVE EQUIPT, EXPLAIN _____

DAILY TOTAL \$ 7715
 FORWARD 345,003
 ACCU. TOTAL \$ 402,178
 AFE \$ 2001.4300.02
 SUPERVISOR _____

POH
27 Sept 86

THERMAL POWER COMPANY

WELL NO. CTSH-1 AFE NO. _____
 REPORT NO. 77 DATE 4 SEPT 86
 TOTAL RIG DAYS 17 TIME FROM SPUD _____
 DEPTH @ 2400 HRS. 4800 FOOTAGE DRLD. _____
 HRS. DRILLED _____ HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. 8.4 VIS. 32 W.L. _____ CK. _____ PH _____ CHL _____ YP _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

10 3/4" CSG. 35
 7" CSG. 488
 4.5" CSG. 526
 LINER 3.5 4205
 TIE-BACK _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G

PUMP LINER STROKE SPM GPM PSI TOTAL GPM NOZZLE VEL. ANNULUS VEL.
 _____ _____ _____ 17 350 _____ _____ _____

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE ^{HIGH AVERAGE LOG} _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Completed 11 hrs of borehole geophysical logging: SP, Resistivity, Caliper, etc

13 hrs RTH Cooling Port for additional logs

Geohist DOBMMI onsite past two days sampling the rock cores per his DOE contract

USFS rep. onsite stating Access Period site requirements including mulching/benching

OPERATION @ 0600 HOURS FOLLOWING DAY:
Logging

INOPERATIVE EQUIP'T, EXPLAIN _____

COSTS
 TANGIBLES
 CASING _____
 VALVES _____
 FLANGES _____
 OTHER _____

INTANGIBLE
 LOCATION _____
 RIG MOVES _____
 RIG \$ 3000
 ABATEMENT _____
 BITS _____
 DRILL EQUIP. MAIN. _____
 DRILL. EQUIP. RENTAL 300
 FUEL, WATER POWER _____
 MUD 100
 SUPERVISION & LABOR 300
 CEMENT SERVICES _____
 TRANSPORTATION _____
 LOGGING SERVICES _____
 FISHING & DIRECTIONAL _____
 OTHER TOOLS 250

DAILY TOTAL 3950
 FORWARD 402,718
 ACCU. TOTAL \$ 406,668
 AFE 86 2001 4300 02
 SUPERVISOR R-120-1

DO 5 Sept 86

THERMAL POWER COMPANY

10 3/4" CSG 35
 7.5" CSG. 488'
 4.5" CSG. 526'
 LINER 3.5 4205'
 TIE-BACK _____

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 78 DATE 5 SEPT 86
 TOTAL RIG DAYS 78 TIME FROM SPUD 7:10 AM
 DEPTH @ 2400 HRS. 4800 FOOTAGE DRLD. 0
 HRS. DRILLED _____ HRS. TRIPPED _____ HRS. REPAIR _____ RIG NO. _____
 HRS. OTHER 24 COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH _____ CHL _____ YP _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T P G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T P G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T P G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.
_____	_____	_____	_____	_____	_____	_____	_____	_____

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE ^{HIGH AVERAGE LOG} _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Accomplished geophysical bore hole logging, velocity and sonic.
Completed logging at 2400 hrs Sept 86. No problems with HX rod break at 823'.
All core boxes, from 526' to 4800' shipped out to UURT Salt Lake City

COSTS

TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	\$ 3000
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	300
FUEL, WATER POWER	_____
MUD	_____
SUPERVISION & LABOR	300
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	_____
FISHING & DIRECTIONAL	_____
OTHER	Barrel Pairs 750

OPERATION @ 0600 HOURS FOLLOWING DAY:
Shutting down NCC rods

DAILY TOTAL * 3850
 FORWARD 406,668
 ACCU. TOTAL 410,518
 AFE 76,190, 4300 02
 SUPERVISOR Bowden

INOPERATIVE EQUIP'T, EXPLAIN _____

NO 6/24/86

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 79 DATE 6 SEPT 86
 TOTAL RIG DAYS 79 TIME FROM SPUD _____
 DEPTH @ 2400 HRS. 4800 FOOTAGE DRLD. _____
 HRS. DRILLED _____ HRS. TRIPPED _____
 HRS. OTHER 24 COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

10 1/4" CSG. 35'
 7" CSG. 488'
 4.5" CSG. 526'
 LINER 3.5 4,205'
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND
												T P G
												T P G
												T P G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.

AIR COMP. NO. _____ CFM. _____ PSI. _____ TEMP. °F. _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE _____ HIGH AVERAGE LEN. _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

Finished laying down NCC rods.

Removed rig floor; pumped out cellar; removed BOP.

Installed 1 1/2" thick plate flange on Jackson casing head with jmg groove and bolts.

6" long nipple and 3" full opening valve on top.

Shut down rig at 2400 hrs 6 Sept 86

COSTS	
TANGIBLES	
CASING	_____
VALVES	_____
FLANGES	_____
OTHER	_____
INTANGIBLE	
LOCATION	_____
RIG MOVES	_____
RIG	<u># 3000</u>
ABATEMENT	_____
BITS	_____
DRILL EQUIP. MAIN.	_____
DRILL. EQUIP. RENTAL	<u>300</u>
FUEL, WATER POWER	_____
MUD	_____
SUPERVISION & LABOR	<u>300</u>
CEMENT SERVICES	_____
TRANSPORTATION	_____
LOGGING SERVICES	<u>15,500!</u>
FISHING & DIRECTIONAL	_____
OTHER	<u>PRYLES 250</u>
	<u>WELLHEAD 2150</u>
DAILY TOTAL	<u>21,500</u>
FORWARD	<u>410,518</u>
ACCU. TOTAL	<u>432,018</u>
AFE 86	<u>4300.02</u>
SUPERVISOR	<u>POWDER</u>

OPERATION @ 0600 HOURS FOLLOWING DAY: _____

INOPERATIVE EQUIPT., EXPLAIN _____

DO
 9/21/86

THERMAL POWER COMPANY

WELL NO. CTGH 1 AFE NO. _____
 REPORT NO. 80 DATE 7 SEPT 86
 TOTAL RIG DAYS 80 TIME FROM SPUD _____
 DEPTH @ 2400 HRS. 4800 FOOTAGE DRLD. _____
 HRS. DRILLED _____ HRS. TRIPPED _____
 HRS. OTHER _____ COOLING TOWER IN USE, YES NO
 MUD WT. _____ VIS. _____ W.L. _____ CK. _____ PH. _____ CHL. _____ YP. _____
 P.V. _____ GELS _____ % SAND _____ % SOLIDS _____ % LOST CIRC. MTL. _____
 GALVONIC PROBE _____ CORRATOR _____ SULPHIDE _____ OXY. _____ AIR-H₂O RATIO 1
 FORM. DRLD. _____ FLOW LINE TEMP. _____ °F. SUCTION TEMP. _____ °F.
 MAX. TEMP. _____ °F. DEVIATION SURVEYS: _____

1044 CSG _____
 " CSG. 35
 7.5" CSG. 488
 " CSG. 526
 LINER 3.5" 4209
 TIE-BACK _____
 HRS. REPAIR _____ RIG NO. _____

BIT #	SIZE	MAKE	TYPE	SER. NO.	JETS	IN	OUT	FT.	HRS.	WT.	RPM	COND.
												T B G
												T B G
												T B G

PUMP	LINER	STROKE	SPM	GPM	PSI	TOTAL GPM	NOZZLE VEL.	ANNULUS VEL.

AIR COMP. NO. _____ CFM _____ PSI _____ TEMP. °F _____ CHEM. _____ RATIO 1 RATE _____
 DRILLING ASSEMBLY, TOTAL LENGTH AND DESCRIPTION: _____

TOTAL STRING WT. _____ TOTAL PICKUP WT. _____ ROTARY TORQUE HIGH AVERAGE LGH _____
 STEAM ENTRIES, DEPTH, LBS. _____

REMARKS FOR 24 HOUR PERIOD:

*Rigged down Core Rig,
Cleaned cellar and pits
RELEASED RIG 1300 hrs
7 Sept 86*

COSTS

TANGIBLES

CASING _____

VALVES _____

FLANGES _____

OTHER _____

INTANGIBLE

LOCATION _____

RIG MOVES \$ 3000 DEMOB

RIG \$ 750

ABATEMENT _____

BITS _____

DRILL EQUIP. MAIN. _____

DRILL. EQUIP. RENTAL _____

FUEL, WATER POWER _____

MUD _____

SUPERVISION & LABOR 300

CEMENT SERVICES _____

TRANSPORTATION 2400 *BAICERTON + POP RETOR*

LOGGING SERVICES _____

FISHING & DIRECTIONAL _____

OTHER PIPPLES 250

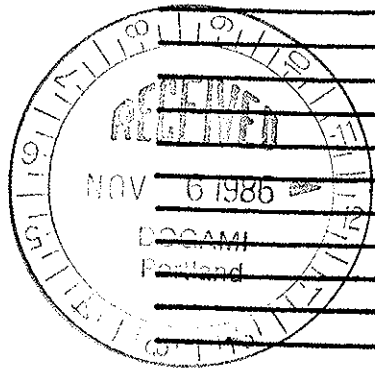
DAILY TOTAL \$ 6700

FORWARD \$ 432,018

ACCU. TOTAL \$ 438,718

AFE 86 8001 4300 02

SUPERVISOR BOWDEN



OPERATION @ 0600 HOURS FOLLOWING DAY:

Well get location, unloading and access trail, checking damage, cost estimates plus HX tool + 45

INOPERATIVE EQUIPT, EXPLAIN *why costs to add in*

8 Sept 86