

# CALIFORNIA E RGY CO., INC.-DAILY DRILLING REPORT

ELEV: 3840.3' asl

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 57 DATE 11/22/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 1 1/2" TBG. 3040'  
 RIG DAYS 55 DRILLING DAYS 54 " LNR.  
 DEPTH @ 2400 HRS. 3065' FOOTAGE DRILLED  
 ACCUM DRLG HRS. SINCE LAST INSP. BLOOIE LN VLV#  
 HRS. DRILLED HRS. TRIPPED HRS. REPAIR HRS. OTHER

MUD WT. VISC. W.L. CK. PH. CHL. YP PV  
 GELS SAND SOLIDS %LOST CIRC. MTL. TEMP IN OUT

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
 DP =  
 DC =  
 AIR COMPS. CFM PSI TEMP F. PRESSURE IN OUT  
 CHEMICALS RATE  
 FORMATION DRILLED MUD COOLER YES NO NO.

BIT SIZE MAKE TYPE SER.# JETS IN OUT FT HRS WT RPM COND.  
 T B G  
 T B G  
 T B G

DRLG. ASSY.  
 STRING WT. UP WT. DN WT. ROT TORQ.

24 HR SUMMARY: MUD ADDITIVES  
 0600-1800 STACKED OUT RIG ON 47-08 PAD IN NAVY I PRODUCT AMOUNT

DAILY MUD COST  
 ACC COST 12,800  
 WELL COSTS 9,890  
 FORWARD 289,240  
 ACC COST 299,130  
 AFE. 299,303  
 SUP. AFE

OPERATIONS @ 0500 HRS. CONTRACTOR ACCIDENTS:  
 YES NO X

REMARKS:

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET  
 DEPTH  
 MUD MTR HRS  
 ACC MUD MTR HR  
 MONEL NO.  
 LENGTH

DP ON LOC., SIZE JTS SIZE JTS  
 FUEL ON HAND USED REC'D DRLG. SUPERVISOR L.BRASSFIELD

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2 " CSG. 475'  
 REPORT NO. 56 DATE 11/21/93 AFE NO. E48W113 3 1/2 " CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG. \_\_\_\_\_  
 RIG DAYS 55 DRILLING DAYS 54 " LNR. \_\_\_\_\_  
 DEPTH @ 2400 HRS. 3065' FOOTAGE DRILLED 10'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLODIE LN VLV# \_\_\_\_\_  
 HRS. DRILLED 5 HRS. TRIPPED \_\_\_\_\_ HRS. REPAIR \_\_\_\_\_ HRS. OTHER \_\_\_\_\_

MUD WT. 8.6 VISC. 49 W.L. 8.4 CK. 1 PH. 9 CHL. 600 YP 11 PV 15  
 GELS 7/18 SAND TRACE SOLIDS 2 %LOST CIRC. MTL. \_\_\_\_\_ TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL

DP = \_\_\_\_\_  
 DC = \_\_\_\_\_

AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_

CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_

FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>29</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>18654</u>	<u>CORE</u>	<u>3036</u>						<u>T B G</u>
												<u>T B G</u>
												<u>T B G</u>

DRLG. ASSY. \_\_\_\_\_

STRING WT. \_\_\_\_\_ UP WT. \_\_\_\_\_ DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

## 24 HR SUMMARY:

		MUD ADDITIVES	
		PRODUCT	AMOUNT
<u>2400-0500</u>	<u>DRILLED F/3055' T/3065'</u>	<u>GEL</u>	<u>10 60</u>
<u>0500-0845</u>	<u>WIPER TRIP, DRILL CAVE</u>		
<u>0845-1000</u>	<u>CIRC. HOLE</u>		
<u>1000-1130</u>	<u>WIPER TRIP</u>		
<u>1130-1200</u>	<u>CIRC. HOLE</u>	<u>OVER CRG.</u>	<u>-78</u>
<u>1200-1230</u>	<u>CIRC. HOLE</u>		
<u>1230-1630</u>	<u>P.O.D.H. LAY DOWN NQ</u>	<u>DAILY MUD COST</u>	<u>-18</u>
<u>1630-2000</u>	<u>R.I.H. TUBING 3,040 FT.</u>	<u>ACC COST</u>	<u>12,800</u>
<u>2000-2200</u>	<u>CIRC. TUBING</u>		
<u>2200-2400</u>	<u>RIG DOWN</u>	<u>WELL COSTS</u>	<u>3,787</u>
		<u>FORWARD</u>	<u>285,453</u>
		<u>ACC COST</u>	<u>289,240</u>
		<u>AFE.</u>	<u>299,303</u>
		<u>SUP. AFE</u>	

RAN TUBING IN AND TAGGED BOTTOM  
@ 3065' PULLED BACK TO 3040'

OPERATIONS @ 0500 HRS. \_\_\_\_\_

CONTRACTOR ACCIDENTS:  
 YES \_\_\_\_\_ NO X

REMARKS: \_\_\_\_\_

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET \_\_\_\_\_  
 DEPTH \_\_\_\_\_  
 MUD MTR HRS \_\_\_\_\_  
 ACC MUD MTR HR \_\_\_\_\_  
 MONEL NO. \_\_\_\_\_  
 LENGTH \_\_\_\_\_

DP ON LOC., SIZE NQ JTS 348 SIZE \_\_\_\_\_ JTS \_\_\_\_\_

FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR L.BRASSFIELD

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2 " CSG. 475'  
 REPORT NO. 55 DATE 11/20/93 AFE NO. E48W113 3 1/2 " CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 54 DRILLING DAYS 53 " LNR.  
 DEPTH @ 2400 HRS. 3055' FOOTAGE DRILLED 22'  
 ACCUM DRLG HRS.            SINCE LAST INSP.            BLOODE LN VLV#  
 HRS. DRILLED 15.5 HRS. TRIPPED 4 HRS. REPAIR -0- HRS. OTHER 4.5

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MUD WT. 8.5 VISC. 37 W.L. 8 CK. 1 PH. 10 CHL. 700 YP 5 PV 10  
 GELS 0/1 SAND TRACE SOLIDS 2 %LOST CIRC. MTL.            TEMP IN            OUT           

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PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                                                    
                                                                                         
 AIR COMPS.            CFM            PSI            TEMP F.            PRESSURE IN            OUT             
 CHEMICALS            RATE             
 FORMATION DRILLED            MUD COOLER YES            NO            NO.           

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BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
												T B G
<u>28</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L18655</u>	<u>CORE</u>	<u>2938</u>	<u>INC</u>					T B G
												T B G

DRLG. ASSY. 13' C.B.  
 STRING WT.            UP WT.            DN WT.            ROT TORQ.           

## 24 HR SUMMARY:

2400-0330 DRILLED F/3033' T/3038'  
0330-0730 TRIPPED FOR NEW BIT # 29  
0730-1200 COND. & CLEANED HOLE.  
1200-2400 DRILLED F/3038' 3055'

MUD ADDITIVES  
 PRODUCT AMOUNT  
GEL 14 140  
DRISPAC 1 227  
SODA ASH 1 10

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DAILY MUD COST 377  
 ACC COST 12,818  
 =====  
 WELL COSTS 4,155  
 FORWARD 281,298  
 ACC COST 285,453  
 AFE. 299,303  
 SUP. AFE           

OPERATIONS @ 0500 HRS.            CONTRACTOR ACCIDENTS:  
           YES            NO X

REMARKS:           

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M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET  
                                                                              
                                                                              
                                                                              
                                                                              
                                                                            

DP ON LOC., SIZE NQ JTS 348 SIZE            JTS             
 FUEL ON HAND            USED            REC'D            DRLG. SUPERVISOR L. BRASSFIELD

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 54 DATE 11/19/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 53 DRILLING DAYS 52 " LNR.  
 DEPTH @ 2400 HRS. 3033' FOOTAGE DRILLED 73'  
 ACCUM DRLG HRS. SINCE LAST INSP. BLODIE LN VLV#  
 HRS. DRILLED 24 HRS. TRIPPED HRS. REPAIR -0- HRS. OTHER

MUD WT. 8.7 VISC. 39 W.L. -10 CK. 1 PH. 9.5 CHL. 700 YP 8 PV 10  
 GELS 0/2 SAND TRACE SOLIDS 2 %LOST CIRC. MTL. TEMP IN OUT

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
 1 2 1/4 3" DP =  
 AIR COMPS. CFM PSI TEMP F. PRESSURE IN OUT  
 CHEMICALS RATE  
 FORMATION DRILLED MUD COOLER YES NO NO.

BIT SIZE MAKE TYPE SER.# JETS IN OUT FT HRS WT RPM COND.  
 28 NQ LY IMP L18455 CORE 2938 INC T B G  
 T B G  
 T B G

DRLG. ASSY. 13' C.B.  
 STRING WT. UP WT. DN WT. ROT TORQ.

## 24 HR SUMMARY:

2400-1200 DRILLED F/2960' T/3006'  
 1200-2400 DRILLED F/3006' T/3033'

MUD ADDITIVES  
 PRODUCT AMOUNT  
 GEL 8 80  
 DRISPAC 2 454  
 SODA ASH 1 10

DAILY MUD COST 544  
 ACC COST 12,441  
 WELL COSTS 5,036  
 FORWARD 276,262  
 ACC COST 281,298  
 AFE. 299,303  
 SUP. AFE

OPERATIONS @ 0500 HRS. CONTRACTOR ACCIDENTS:  
 YES NO X

REMARKS:

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET  
 DEPTH  
 MUD MTR HRS  
 ACC MUD MTR HR  
 MONEL NO.  
 LENGTH

DP ON LOC., SIZE NQ JTS 348 SIZE JTS  
 FUEL ON HAND USED REC'D DRLG. SUPERVISOR L. BRASSFIELD

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 53 DATE 11/18/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG. \_\_\_\_\_  
 RIG DAYS 52 DRILLING DAYS 51 " LNR. \_\_\_\_\_  
 DEPTH @ 2400 HRS. 2960' FOOTAGE DRILLED 60'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLOODIE LN VLV# \_\_\_\_\_  
 HRS. DRILLED 19 HRS. TRIPPED 5 HRS. REPAIR -0- HRS. OTHER \_\_\_\_\_

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MUD WT. 8.7 VISC. 40 W.L. -10 CK. 1 PH. 9.5 CHL. 700 YP 8 PV 10  
 GELS 0/2 SAND TRACE SOLIDS 2 %LOST CIRC. MTL. \_\_\_\_\_ TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

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PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3" \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_  
 DP = \_\_\_\_\_  
 DC = \_\_\_\_\_

AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_

CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_

FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_ NO. \_\_\_\_\_

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BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>27</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24938</u>	<u>CORE</u>	<u>2808</u>	<u>2938</u>	<u>130</u>	_____	_____	_____	T B G
<u>28</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L18655</u>	<u>CORE</u>	<u>2938</u>	<u>INC</u>	_____	_____	_____	_____	T B G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G

DRLG. ASSY. 13' C.B.

STRING WT. \_\_\_\_\_ UP WT. \_\_\_\_\_ DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

## 24 HR SUMMARY:

<u>2400-1200</u>	<u>DRILLED F/2900' T/2931'</u>
<u>1200-1330</u>	<u>DRILLED F/2931' T/2938'</u>
<u>1330-1530</u>	<u>POOH FOR NEW BIT</u>
<u>1530-1800</u>	<u>RIH WITH BIT #28</u>
<u>1800-2400</u>	<u>DRILLED F/2938' T/2960'</u>

MUD ADDITIVES	
PRODUCT	AMOUNT
<u>GEL</u>	<u>5</u>
<u>DRISPAC</u>	<u>2</u>
<u>SODA ASH</u>	<u>1</u>

<u>DAILY MUD COST</u>	<u>514</u>
<u>ACC COST</u>	<u>11,897</u>
=====	
<u>WELL COSTS</u>	<u>4,824</u>
<u>FORWARD</u>	<u>271,438</u>
<u>ACC COST</u>	<u>276,262</u>
<u>AFE.</u>	<u>299,303</u>
<u>SUP. AFE</u>	_____

OPERATIONS @ 0500 HRS. \_\_\_\_\_

CONTRACTOR ACCIDENTS:  
 YES \_\_\_\_\_ NO X

REMARKS: \_\_\_\_\_

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M.D.	ANGLE	DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
_____	_____	_____	_____	_____	_____	_____	_____	DEPTH
_____	_____	_____	_____	_____	_____	_____	_____	MUD MTR HRS
_____	_____	_____	_____	_____	_____	_____	_____	ACC MUD MTR HR
_____	_____	_____	_____	_____	_____	_____	_____	MONEL NO.
_____	_____	_____	_____	_____	_____	_____	_____	LENGTH

DP ON LOC., SIZE NQ JTS 348 SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
 FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR L. BRASSFIELD

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 52 DATE 11/17/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG. \_\_\_\_\_  
 RIG DAYS 51 DRILLING DAYS 50 " LNR. \_\_\_\_\_  
 DEPTH @ 2400 HRS. 2900' FOOTAGE DRILLED 55'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLOODE LN VLV# \_\_\_\_\_  
 HRS. DRILLED 21 HRS. TRIPPED 3 HRS. REPAIR \_\_\_\_\_ HRS. OTHER \_\_\_\_\_

MUD WT. 8.7 VISC. 39 W.L. -10 CK. 1 PH. 9 CHL. 700 YP 7 PV 10  
 GELS 0/4 SAND TRACE SOLIDS 2 %LOST CIRC. MTL. \_\_\_\_\_ TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3" \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_  
 DP = \_\_\_\_\_  
 DC = \_\_\_\_\_

AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_

CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_

FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>27</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24938</u>	<u>CORE</u>	<u>2808</u>						T B G
												T B G
												T B G

DRLG. ASSY. 13' C.B.

STRING WT. \_\_\_\_\_ UP WT. \_\_\_\_\_ DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

## 24 HR SUMMARY:

2400-1200 DRILLED F/2845' T/2871'  
 1200-1500 DRILLED F/2871' T/2886'  
 1500-1730 SHORT TRIP TO CASING TO CLEAN UP HOLE  
 1730-2400 DRILLED F/2886' T/2900'

MUD ADDITIVES		
PRODUCT	AMOUNT	
GEL	<u>9</u>	<u>54</u>
DRISPAC	<u>1</u>	<u>227</u>

DAILY MUD COST 281  
 ACC COST 11,383  
 =====  
 WELL COSTS 4,521  
 FORWARD 266,917  
 ACC COST 271,438  
 AFE. 299,303  
 SUP. AFE \_\_\_\_\_

OPERATIONS @ 0500 HRS. \_\_\_\_\_

CONTRACTOR ACCIDENTS:  
 YES \_\_\_\_\_ NO X

REMARKS: \_\_\_\_\_

M.D.	ANGLE	DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
								DEPTH
								MUD MTR HRS
								ACC MUD MTR HR
								MONEL NO.
								LENGTH

DP ON LOC., SIZE NQ JTS 348 SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
 FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR L. BRASSFIELD

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

LL NO. TCH 48-11 4 1/2" CSG. 475'  
 PORT NO. 51 DATE 11/16/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 G DAYS 50 DRILLING DAYS 49 " LNR.  
 PTH @ 2400 HRS. 2845' FOOTAGE DRILLED 57'  
 CUM DRLG HRS.            SINCE LAST INSP.            BLOODE LN VLV#             
 B. DRILLED 19 HRS. TRIPPED 5 HRS. REPAIR            HRS. OTHER           

D WT. 8.7 VISC. 40 W.L. -10 CK. 1 PH. 9 CHL. 600 YP 8 PV 9  
 LS O/I SAND SOLIDS 2 %LOST CIRC. MTL.            TEMP IN            OUT           

MPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                                                    
 DP =             
 DC =             
 R COMPS.            CFM            PSI            TEMP F.            PRESSURE IN            OUT             
 EMICALS            RATE             
 RMATION DRILLED            MUD COOLER YES            NO            NO.           

T	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>6</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24937</u>	<u>CORE</u>	<u>2776</u>	<u>2808</u>	<u>32</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>T B G</u>
<u>7</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24938</u>	<u>CORE</u>	<u>2808</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>T B G</u>
												<u>T B G</u>

LG. ASSY. 13' C.B.  
 RING WT. 12,825 UP WT.            DN WT.            ROT TORQ.           

HR SUMMARY:		MUD ADDITIVES	
		PRODUCT	AMOUNT
<u>00-0945</u>	<u>DRILLED F/2788' T/2808'</u>		
<u>45-1200</u>	<u>TRIP FOR BIT</u>		
<u>00-1330</u>	<u>R.I.H.</u>		
<u>30-2400</u>	<u>DRILLED F/2808' T/2845'</u>		

	DAILY MUD COST	
	ACC COST	<u>11,102</u>
	WELL COSTS	<u>4,268</u>
	FORWARD	<u>262,649</u>
	ACC COST	<u>266,917</u>
	AFE.	<u>299,303</u>
	SUP. AFE	

ERATIONS @ 0500 HRS.             
 CONTRACTOR ACCIDENTS:  
 YES            NO            X           

REMARKS:           

D.	ANGLE	DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
								DEPTH
								MUD MTR HRS
								ACC MUD MTR HR
								MONEL NO.
								LENGTH

ON LOC., SIZE NQ JTS 348 SIZE            JTS             
 EL ON HAND            USED            REC'D            DRLG. SUPERVISOR L. BRASSFIELD

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 50 DATE 11/15/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG. \_\_\_\_\_  
 RIG DAYS 49 DRILLING DAYS 48 " LNR. \_\_\_\_\_  
 DEPTH @ 2400 HRS. 2788' FOOTAGE DRILLED 37'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLODIE LN VLV# \_\_\_\_\_  
 HRS. DRILLED \_\_\_\_\_ HRS. TRIPPED \_\_\_\_\_ HRS. REPAIR \_\_\_\_\_ HRS. OTHER \_\_\_\_\_

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MUD WT. 8.7 VISC. 38.7 W.L. -10 CK. 1 PH. 9 CHL. 700 YP 7 PV 10  
 BELS 0/1 SAND \_\_\_\_\_ SOLIDS 2 %LOST CIRC. MTL. \_\_\_\_\_ TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

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PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
<u>1</u>	<u>2 1/4</u>	<u>3"</u>	<u>80</u>	<u>17</u>	<u>180</u>			DP = _____
								DC = _____

AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_  
 CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_  
 FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_

=====

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>25</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24934</u>	<u>CORE</u>	<u>2650</u>	<u>2776</u>	<u>126</u>				T B G
<u>26</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24937</u>	<u>CORE</u>	<u>2776</u>						T B G

DRLG. ASSY. 13' C.B. 279 NQ RODS  
 STRING WT. 12,555 UP WT. 14,750 DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

=====

24 HR SUMMARY:	MUD ADDITIVES
2400-1000 <u>DRILLED F/2751' T/2776'</u>	PRODUCT AMOUNT
1000-1200 <u>TRIP FOR BIT</u>	GEL <u>3</u> <u>18</u>
1200-1330 <u>R.I.H.</u>	SHORTAGE <u>102</u>
1330-1800 <u>DRILLED F/2776' T/2782'</u>	
1800-1915 <u>P.O.O.H.</u>	
1915-1930 <u>CHECK DOWN HOLE TOOLS</u>	
1930-2100 <u>R.I.H.</u>	DAILY MUD COST <u>120</u>
2100-2400 <u>DRILLED F/2782' T/2788'</u>	ACC COST <u>11,102</u>
	=====
	WELL COSTS <u>4,108</u>
	FORWARD <u>258,541</u>
	ACC COST <u>262,649</u>
	AFE. <u>299,303</u>
	SUP. AFE _____
	=====

OPERATIONS @ 0500 HRS. \_\_\_\_\_ CONTRACTOR ACCIDENTS:  
 YES \_\_\_\_\_ NO X  
 REMARKS: \_\_\_\_\_

=====

M.D.	ANGLE	DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
								DEPTH _____
								MUD MTR HRS _____
								ACC MUD MTR HR _____
								MONEL NO. _____
								LENGTH _____

DP ON LOC., SIZE NQ JTS 350 SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
 FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR BRASSFIELD

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 49 DATE 11/14/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 48 DRILLING DAYS 47 " LNR.  
 DEPTH @ 2400 HRS. 2751' FOOTAGE DRILLED 44'  
 ACCUM DRLG HRS.            SINCE LAST INSP.            BLODIE LN VLV#             
 HRS. DRILLED 19 HRS. TRIPPED            HRS. REPAIR            HRS. OTHER 5

=====

MUD WT. 8.7 VISC. 39 W.L. -10 CK. 1 PH. 9 CHL. 700 YP 12 PV 10  
 GELS 0/3 SAND TRACE SOLIDS 2 %LOST CIRC. MTL.            TEMP IN            OUT           

=====

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
<u>1</u>	<u>2 1/4</u>	<u>3"</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
								DP = <u>          </u>
								DC = <u>          </u>

AIR COMPS.            CFM            PSI            TEMP F.            PRESSURE IN            OUT             
 CHEMICALS            RATE           

FORMATION DRILLED            MUD COOLER YES            NO            NO.           

=====

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>25</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24934</u>	<u>CORE</u>	<u>2650</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
												T B G
												T B G
												T B G

DRLG. ASSY. 13' C.B. 262 NQ RODS  
 STRING WT. 12,375 UP WT. 14,750 DN WT.            ROT TORQ.           

## 24 HR SUMMARY:

		MUD ADDITIVES	
		PRODUCT	AMOUNT
<u>2400-1200</u>	<u>DRILLED F/2707' T/2741'</u>	<u>GEL</u>	<u>7 42</u>
<u>1200-1500</u>	<u>DRILLED F/2741' T/2747'</u>	<u>DRISPAC</u>	<u>1 227</u>
<u>1500-2000</u>	<u>PULL BACK TO CLEAN HOLE, BACK TO CASING</u>		
	<u>R.I.H. HIT BRIDGE @ 2500' &amp; 2580'</u>		
<u>2000-2400</u>	<u>DRILLED F/2747' T/2751'</u>		

<u>          </u>	<u>          </u>	DAILY MUD COST	<u>269</u>
<u>          </u>	<u>          </u>	ACC COST	<u>10,982</u>
<u>          </u>	<u>          </u>	=====	
<u>          </u>	<u>          </u>	WELL COSTS	<u>25,668</u>
<u>          </u>	<u>          </u>	FORWARD	<u>232,873</u>
<u>          </u>	<u>          </u>	ACC COST	<u>258,541</u>
<u>          </u>	<u>          </u>	AFE.	<u>299,303</u>
<u>          </u>	<u>          </u>	SUP. AFE	<u>          </u>

OPERATIONS @ 0500 HRS.           

CONTRACTOR ACCIDENTS:  
 YES            NO            X           

REMARKS:           

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M.D.	ANGLE	DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	DEPTH
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	MUD MTR HRS
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	ACC MUD MTR HR
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	MONEL NO.
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	LENGTH

DP ON LOC., SIZE NQ JTS 350 SIZE            JTS             
 FUEL ON HAND            USED            REC'D            DRLG. SUPERVISOR BRASSFIELD

CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO.	TCH 48-11	4 1/2 "	CSG.	475'				
REPORT NO.	48	DATE	11/13/93	AFE NO.	E48W113	3 1/2 "	CSG.	1941'
CONTRACTOR	LONGYEAR	RIG NO.	602	"	CSG.			
RIG DAYS	47	DRILLING DAYS	46	"	LNR.			
DEPTH @ 2400 HRS.	2707'	FOOTAGE DRILLED	57'					
ACCUM DRLG HRS.		SINCE LAST INSP.						
HRS. DRILLED	18	HRS. TRIPPED	3	HRS. REPAIR	-0-	HRS. OTHER	3	

MUD WT. 8.7 VISC. 37/40 W.L. -10 CK. 1 PH. 9 CHL. 700 YP 10 PV 8+  
GELS 0/2 SAND NONE SOLIDS 2 %LOST CIRC. MTL. TRACE TEMP IN OUT

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
1	2 1/4	3"						DP =
2	1 1/2	2"						DC =
AIR COMPS.	CFM	PSI	TEMP F.	PRESSURE IN	OUT			
CHEMICALS								RATE
FORMATION DRILLED						MUD COOLER YES	NO	NO.

[illegible]

DRLG. ASSY. 8' C.B. 262 NQ RODS

STRING WT.	UP WT.	DN WT.	ROT TORQ.
11,790			

24 HR SUMMARY:

TIME	DESCRIPTION	PRODUCT	AMOUNT
0000-0300	TRIPPING		
0300-0530	WASH TO BOTTOM (2650')	DRISPAC	1 227
0530-1200	DRILLED F/2650' T/2665'	GEL	6 60
1200-2400	DRILLED F/2665' T/2707'	SODA ASH	1 10

DAILY MUD COST	297
ACC COST	10,713
=====	
WELL COSTS	4,565
FORWARD	228,308
ACC COST	232,873
AFE.	299,303
SUP. AFE	

OPERATIONS @ 0500 HRS.

CONTRACTOR ACCIDENTS:  
YES NO X

REMARKS:

[illegible]

DP ON LOC., SIZE \_\_\_\_\_ NQ \_\_\_\_\_ JTS \_\_\_\_\_ 350 \_\_\_\_\_ SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR BRASSFIELD

CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO.	TCH 48-11	4 1/2 "	CSG.	475'
REPORT NO.	47	DATE	11/12/93	AFE NO.
			E48W113	3 1/2 "
CONTRACTOR	LONGYEAR	RIG NO.	602	" CSG.
RIG DAYS	46	DRILLING DAYS	45	" LNR.
DEPTH @ 2400 HRS.	2650'	FOOTAGE DRILLED	36'	
ACCUM DRLG HRS.		SINCE LAST INSP.		BLOOTIE LN VLV#
HRS. DRILLED	11	HRS. TRIPPED		HRS. OTHER
		HRS. REPAIR		13

MUD WT. 8.7 VISC. 37/40 W.L. -10 CK. 1 PH. 9 CHL. 600 YP 8 PV 11  
GELS 0/2 SAND NONE SOLIDS 2 %LOST CIRC. MTL. TRACE TEMP IN OUT

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
1	2 1/4	3"						DP =
2	1 1/2	2"						DC =
AIR COMPS.		CFM	PSI	TEMP F.	PRESSURE IN	OUT		
CHEMICALS								RATE
FORMATION DRILLED					MUD COOLER	YES	NO	NO.

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.		
24	NQ	LY	IMP	L24933	CORE	2527	2650					T	B	G
												T	B	G
												T	B	G

DRLG. ASSY.	8' C.B.	262 NQ RODS		
STRING WT.	11,790	UP WT.	DN WT.	ROT TORQ.

## 24 HR SUMMARY:

0000-1100	DRILL F/2614 T/2648'
1100-2400	STUCK PIPE @ 2648', WORK STUCK PIPE PULLED BACK TO 2140'

MUD ADDITIVES		
PRODUCT		AMOUNT
DRISPAC	2	454
GEL	6	27
TORKEASE	1	60

DAILY MUD COST	227
ACC COST	10,416

WELL COSTS	4,201
FORWARD	224,107
ACC COST	228,308
AFE.	299,303
SUP. AFE	

OPERATIONS @ 0500 HRS.

CONTRACTOR ACCIDENTS:  
YES NO X

REMARKS:

[illegible]

DP ON LOC., SIZE NO JTS 350 SIZE            JTS             
FUEL ON HAND USED REC'D            DRLG. SUPERVISOR Hester Brassfield

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 46 DATE 11/11/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG. \_\_\_\_\_  
 RIG DAYS 45 DRILLING DAYS 44 " LNR. \_\_\_\_\_  
 DEPTH @ 2400 HRS. 2614' FOOTAGE DRILLED 62'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLOODE LN VLV# \_\_\_\_\_  
 HRS. DRILLED 24 HRS. TRIPPED \_\_\_\_\_ HRS. REPAIR \_\_\_\_\_ HRS. OTHER \_\_\_\_\_

=====

MUD WT. 8.7 VISC. 39 W.L. 9.5 CK. 1 PH. 9 CHL. 600 YP 10 PV 11  
 GELS 1/3 SAND NONE SOLIDS 2 %LOST CIRC. MTL. TRACE TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

=====

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
<u>1</u>	<u>2 1/4</u>	<u>3"</u>	_____	_____	_____	_____	_____	DP = _____
<u>2</u>	<u>1 1/2</u>	<u>2"</u>	_____	_____	_____	_____	_____	DC = _____

AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_  
 CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_  
 FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_

=====

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>24</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24933</u>	<u>CORE</u>	<u>2527</u>	_____	_____	_____	_____	_____	T B G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	T B G

DRLG. ASSY. 8' C.B. 262 NQ RODS  
 STRING WT. 11,790 UP WT. \_\_\_\_\_ DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

=====

24 HR SUMMARY:

<u>2400-1200</u>	<u>DRILL F/2552' T/2580'</u>	MUD ADDITIVES
<u>1200-2400</u>	<u>DRILL F/2580' T/2614'</u>	PRODUCT AMOUNT
_____	_____	<u>DRISPAC 2 454</u>

=====

DAILY MUD COST	<u>454</u>
ACC COST	<u>10,189</u>
WELL COSTS	<u>4,792</u>
FORWARD	<u>219,315</u>
ACC COST	<u>224,107</u>
AFE.	<u>299,303</u>
SUP. AFE	_____

=====

OPERATIONS @ 0500 HRS. \_\_\_\_\_ CONTRACTOR ACCIDENTS: YES \_\_\_\_\_ NO X

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REMARKS: \_\_\_\_\_

=====

M.D.	ANGLE	DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
_____	_____	_____	_____	_____	_____	_____	_____	DEPTH
_____	_____	_____	_____	_____	_____	_____	_____	MUD MTR HRS
_____	_____	_____	_____	_____	_____	_____	_____	ACC MUD MTR HR
_____	_____	_____	_____	_____	_____	_____	_____	MONEL NO.
_____	_____	_____	_____	_____	_____	_____	_____	LENGTH

DP ON LOC., SIZE NQ JTS 350 SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
 FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR Steve Brayfield

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 45 DATE 11/10/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 44 DRILLING DAYS 43 " LNR.  
 DEPTH @ 2400 HRS. 2552' FOOTAGE DRILLED 36'  
 ACCUM DRLG HRS.        SINCE LAST INSP.        BLOODE LN VLV#         
 HRS. DRILLED 17 HRS. TRIPPED 4 HRS. REPAIR        HRS. OTHER 3

MUD WT. 8.5 VISC. 42 W.L. 9.6 CK. 1 PH. 9.5 CHL. 700 YP 9 PV 8  
 BELS 1/2 SAND NONE SOLIDS 1 %LOST CIRC. MTL. TRACE TEMP IN        OUT       

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                            
 DP =         
 DC =         
 AIR COMPS.        CFM        PSI        TEMP F.        PRESSURE IN        OUT         
 CHEMICALS        RATE         
 FORMATION DRILLED        MUD COOLER YES        NO        NO.       

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>23</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24696</u>	<u>CORE</u>	<u>2506</u>	<u>2527</u>	<u>21</u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>T B G</u>
<u>24</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24933</u>	<u>CORE</u>	<u>2527</u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>T B G</u>
<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>T B G</u>

DRLG. ASSY. 8' C.B. NQ RODS  
 STRING WT. 11,475 UP WT.        DN WT.        ROT TORQ.       

## 24 HR SUMMARY:

2400-0500 DRILL F/2516' T/2527'  
0500-0550 SHORT TRIP FOR WIPER RUN, 8 STANDS  
0550-0630 COND. HOLE  
0630-1015 TRIP  
1015-1100 COND. HOLE  
1100-1200 DRILL F/2527' T/2529'  
1200-2400 DRILL F/2529' T/2552'

MUD ADDITIVES		
PRODUCT	AMOUNT	
<u>GEL</u>	<u>3</u>	<u>18</u>
<u>DRISPAC</u>	<u>1</u>	<u>227</u>
<u>PAPER</u>	<u>1</u>	<u>15</u>

DAILY MUD COST 260  
 ACC COST 9,735  
 =====  
 WELL COSTS 4,234  
 FORWARD 215,081  
 ACC COST 219,315  
 AFE. 299,303  
 SUP. AFE       

OPERATIONS @ 0500 HRS.       

CONTRACTOR ACCIDENTS:  
 YES        NO X

REMARKS:       

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET         
 DEPTH         
 MUD MTR HRS         
 ACC MUD MTR HR         
 MONEL NO.         
 LENGTH       

OP ON LOC., SIZE NQ JTS 350 SIZE        JTS         
 FUEL ON HAND        USED        REC'D        DRLG. SUPERVISOR Lester Bransfield

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 44 DATE 11/09/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 43 DRILLING DAYS 42 " LNR.  
 DEPTH @ 2400 HRS. 2516' FOOTAGE DRILLED 37'  
 ACCUM DRLG HRS. SINCE LAST INSP. BLOODE LN VLV#   
 HRS. DRILLED 18 HRS. TRIPPED 4 HRS. REPAIR 2 HRS. OTHER 7

MUD WT. 8.5 VISC. 39 W.L. 11.6 CK. 1+ PH. 10 CHL. 600 YP 7 PV 9  
 GELS 1/4 SAND TRACE SOLIDS 1 %LOST CIRC. MTL. TRACE TEMP IN OUT

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
<u>1</u>	<u>2 1/4</u>	<u>3"</u>						DP =
								DC =

AIR COMPS. CFM PSI TEMP F. PRESSURE IN OUT  
 CHEMICALS RATE  
 FORMATION DRILLED MUD COOLER YES NO NO.

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>22</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L20850</u>	<u>CORE</u>	<u>2440</u>	<u>2506</u>	<u>66</u>				T B G
<u>23</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24696</u>	<u>CORE</u>	<u>2506</u>						T B G
												T B G

DRLG. ASSY. 8' C.B.  
 STRING WT. 11,340 UP WT. 13,000 DN WT. ROT TORQ.

## 24 HR SUMMARY:

<u>2400-1000</u>	<u>DRILL F/2479' T/2506'</u>
<u>1000-1200</u>	<u>TRIP OUT</u>
<u>1200-1430</u>	<u>RIG REPAIR</u>
<u>1430-1600</u>	<u>R.I.H.</u>
<u>1600-2400</u>	<u>DRILL F/2506' T/2516'</u>

MUD ADDITIVES		
PRODUCT	AMOUNT	
<u>GEL</u>	<u>6</u>	<u>36</u>
<u>SODA ASH</u>	<u>1</u>	<u>10</u>
<u>PAPER</u>	<u>1</u>	<u>15</u>

<u>DAILY MUD COST</u>	<u>61</u>
<u>ACC COST</u>	<u>9,475</u>
<u>WELL COSTS</u>	<u>4,049</u>
<u>FORWARD</u>	<u>211,032</u>
<u>ACC COST</u>	<u>215,081</u>
<u>AFE.</u>	<u>299,303</u>
<u>SUP. AFE</u>	

OPERATIONS @ 0500 HRS.

CONTRACTOR ACCIDENTS:  
 YES NO X

REMARKS:

M.D.	ANGLE DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
							DEPTH
							MUD MTR HRS
							ACC MUD MTR HR
							MONEL NO.
							LENGTH

DP ON LOC., SIZE NQ JTS 350 SIZE JTS  
 FUEL ON HAND USED REC'D DRLG. SUPERVISOR

4 1/2 "	CSG.	475'
3 1/2 "	CSG.	1941'
"	CSG.	
"	LNR.	

DP ON LOC., SIZE \_\_\_\_\_ NQ \_\_\_\_\_ JTS \_\_\_\_\_ 350 \_\_\_\_\_ SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR *John Bramhall*

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 42 DATE 11/07/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 41 DRILLING DAYS 40 " LNR.  
 DEPTH @ 2400 HRS. 2440' FOOTAGE DRILLED 34'  
 ACCUM DRLG HRS.            SINCE LAST INSP.            BLOOIE LN VLV#             
 HRS. DRILLED 10 HRS. TRIPPED 4 HRS. REPAIR            HRS. OTHER 10

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MUD WT.            VISC.            W.L.            CK.            PH.            CHL.            YP            PV             
 GELS            SAND            SOLIDS            %LOST CIRC. MTL.            TEMP IN            OUT           

=====

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                                                    
2 1 1/2 2.5"                                                                    
 AIR COMPS.            CFM            PSI            TEMP F.            PRESSURE IN            OUT             
 CHEMICALS            RATE             
 FORMATION DRILLED            MUD COOLER YES            NO            NO.           

=====

BIT SIZE MAKE TYPE SER.# JETS IN OUT FT HRS WT RPM COND.  
21 NQ LY IMP L24701 CORE 2381                                                                               
                                                                                                                                                           
                                                                                                                                                         

DRLG. ASSY.             
 STRING WT. 10,980 UP WT.            DN WT.            ROT TORQ.           

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24 HR SUMMARY:

2400-1000 <u>DRILL F/2406' T/2440'</u>	MUD ADDITIVES
1000-1200 <u>P.O.D.H.</u>	PRODUCT AMOUNT
1200-1330 <u>R.I.H. WASH PIPE</u>	GEL <u>7</u> <u>42</u>
1330-1500 <u>CIRC. &amp; MIX CEMENT @ 13.2#</u>	DRISPAC <u>1</u> <u>227</u>
1500-1530 <u>PUMP CEMENT at 2389'</u>	CEMENT <u>1</u> <u>10</u>
1530-1630 <u>P.O.D.H.</u>	SHORTAGE <u>          </u> <u>16</u>
1630-2400 <u>W.D.C.</u>	

DAILY MUD COST 295  
 ACC COST 9,013  
 =====  
 WELL COSTS 4,241  
 FORWARD 202,374  
 ACC COST 206,615  
 AFE. 299,303  
 SUP. AFE           

=====

OPERATIONS @ 0500 HRS.             
            
           CONTRACTOR ACCIDENTS:  
           YES            NO X

REMARKS:           

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M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET             
           DEPTH             
           MUD MTR HRS             
           ACC MUD MTR HR             
           MONEL NO.             
           LENGTH           

DP ON LOC., SIZE NQ JTS 350 SIZE            JTS             
 FUEL ON HAND            USED            REC'D            DRLG. SUPERVISOR Lester Brasfield

CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO.	TCH 48-11	4 1/2 "	CSG.	475'				
REPORT NO.	40	DATE	11/06/93	AFE NO.	E48W113	3 1/2 "	CSG.	1941'
CONTRACTOR	LONGYEAR	RIG NO.	602	"	CSG.			
RIG DAYS	39	DRILLING DAYS	38	"	LNR.			
DEPTH @ 2400 HRS.	2406'	FOOTAGE DRILLED	41'					
ACCUM DRLG HRS.		SINCE LAST INSP.		BLOOTIE LN	VLV#			
HRS. DRILLED	19	HRS. TRIPPED	5	HRS. REPAIR		HRS. OTHER		

MUD WT.	VISC.	40	W.L.	CK.	PH.	CHL.	YP	PV
GELS	SAND	SOLIDS	%LOST	CIRC.	MTL.	TEMP	IN	OUT

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
1	2 1/4	3"						DP =
2	1 1/2	2.5"						DC =
AIR COMPS.		CFM	PSI	TEMP F.	PRESSURE IN	OUT		
CHEMICALS								RATE
FORMATION DRILLED					MUD COOLER YES NO NO.			

[illegible]

ORLG. ASSY. \_\_\_\_\_  
 STRING WT. 10,530 UP WT. \_\_\_\_\_ DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

24 HR SUMMARY:

		PRODUCT	AMOUNT
2400-0045	R.I.H.		
0045-1000	DRILL F/2365' T/2381'	GEL 11	66
1000-1200	TOOH	DRISPAC 2	454
1200-1400	R.I.H.		
1400-2400	DRILL F/2381' T/2406		
1430-1545	R.I.H.		
<del>1545-2100</del>	<del>DRILL F/2381' T/2381'</del>		
		DAILY MUD COST	520

1545	2100	DRILL 172302	172307	DAILY MUD COST	520
				ACC COST	8,718
		[BETTER ROCK]		=====	

[BETTER ROCK]	=====
WELL COSTS	4,564

FORWARD	196,096
ACC COST	200,660

AFE. 299,303  
SUP. AFE

OPERATIONS @ 0500 HRS. CONTRACTOR ACCIDENTS:

REMARKS: YES \_\_\_\_\_ NO X

[illegible]

DP ON LOC.,SIZE	NQ	JTS	350	SIZE	JTS
FUEL ON HAND	USED	REC'D		DRLG. SUPERVISOR	

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 40 DATE 11/05/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 39 DRILLING DAYS 38 " LNR.  
 DEPTH @ 2400 HRS. 2365' FOOTAGE DRILLED 28'  
 ACCUM DRLG HRS.        SINCE LAST INSP.        BLODIE LN VLV#         
 HRS. DRILLED 14 HRS. TRIPPED 10 HRS. REPAIR 0 HRS. OTHER 0

MUD WT.        VISC. 40 W.L.        CK.        PH.        CHL.        YP        PV         
 GELS        SAND        SOLIDS        %LOST CIRC. MTL.        TEMP IN        OUT       

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                           DP =  
2 1 1/2 2.5"                                           DC =  
 AIR COMPS.        CFM        PSI        TEMP F.        PRESSURE IN        OUT         
 CHEMICALS        RATE         
 FORMATION DRILLED        MUD COOLER YES        NO        NO.       

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
18	NQ	LY	IMP	L11704	CORE	2348	2361	13				T B G
19	NQ	LY	IMP	L19537	CORE	2361	2365	4				T B G
20	NQ	LY	IMP	L24700	CORE	2365						T B G

DRLG. ASSY.         
 STRING WT. 10,530 UP WT.        DN WT.        ROT TORQ.       

## 24 HR SUMMARY:

0000-0330 DRILL F/2337 TO 2348  
 0030-0700 BIT TRIP  
 0700-1200 DRILL F/2348' T/2358'  
 1200-0100 DRILL F/2358' T/2361  
 1000-0230 POOH BIT TRIP  
 0230-0400 R.I.H.  
 0400-0930 DRILL F/2361' T/2365'  
 0930-1100 POOH BIT TRIP  
 1100-2400 R.I.H.

MUD ADDITIVES	
PRODUCT	AMOUNT
GEL	11 50
DRISPAC	
SODA ASH	
DAILY MUD COST	50
ACC COST	8,198
WELL COSTS	3,912
FORWARD	193,898
ACC COST	196,096
AFE.	299,303
SUP. AFE	

OPERATIONS @ 0500 HRS.       

CONTRACTOR ACCIDENTS:  
 YES        NO X

REMARKS:       

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET         
 DEPTH         
 MUD MTR HRS         
 ACC MUD MTR HR         
 MONEL NO.         
 LENGTH       

DP ON LOC., SIZE NQ JTS 350 SIZE        JTS         
 FUEL ON HAND        USED        REC'D        DRLG. SUPERVISOR

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 39 DATE 11/04/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG. \_\_\_\_\_  
 RIG DAYS 38 DRILLING DAYS 37 " LNR. \_\_\_\_\_  
 DEPTH @ 2400 HRS. 2337' FOOTAGE DRILLED 31'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLOOIE LN VLV# \_\_\_\_\_  
 HRS. DRILLED 15 HRS. TRIPPED 3 HRS. REPAIR 2 HRS. OTHER 4

MUD WT. \_\_\_\_\_ VISC. 40 W.L. \_\_\_\_\_ CK. \_\_\_\_\_ PH. \_\_\_\_\_ CHL. \_\_\_\_\_ YP \_\_\_\_\_ PV \_\_\_\_\_  
 GELS \_\_\_\_\_ SAND \_\_\_\_\_ SOLIDS \_\_\_\_\_ %LOST CIRC. MTL. \_\_\_\_\_ TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3" \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ DP = \_\_\_\_\_  
2 1 1/2 2.5" \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ DC = \_\_\_\_\_  
 AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_  
 CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_  
 FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_ NO. \_\_\_\_\_

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>16</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L19536</u>	<u>CORE</u>	<u>2306</u>	<u>2322</u>	<u>16</u>				T B G
<u>17</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L24702</u>	<u>CORE</u>	<u>2322</u>						T B G
												T B G

DRLG. ASSY. \_\_\_\_\_  
 STRING WT. 10,530 UP WT. \_\_\_\_\_ DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

24 HR SUMMARY:		MUD ADDITIVES	
		PRODUCT	AMOUNT
<u>0000-0030</u>	<u>W.O.C.</u>		
<u>0030-0400</u>	<u>TAG CMT. @ 2161' DRILL CMT.</u>	<u>GEL</u>	<u>4 24</u>
<u>0400-1000</u>	<u>DRILL F/2306' T/2322'</u>	<u>DRISPAC</u>	<u>1 227</u>
<u>1000-1200</u>	<u>P.O.D.H.</u>	<u>SODA ASH</u>	<u>1 10</u>
<u>1200-1430</u>	<u>RIG REPAIR.</u>		
<u>1430-1545</u>	<u>R.I.H.</u>		
<u>1545-2400</u>	<u>DRILL F/2322' T/2337'</u>		

	DAILY MUD COST	<u>261</u>
	ACC COST	<u>8,148</u>
	WELL COSTS	<u>4,165</u>
	FORWARD	<u>189,733</u>
	ACC COST	<u>193,898</u>
	AFE.	<u>299,303</u>
	SUP. AFE	

OPERATIONS @ 0500 HRS. \_\_\_\_\_  
 CONTRACTOR ACCIDENTS:  
 YES \_\_\_\_\_ NO \_\_\_\_\_ X \_\_\_\_\_

REMARKS:

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET \_\_\_\_\_  
 \_\_\_\_\_ DEPTH \_\_\_\_\_  
 \_\_\_\_\_ MUD MTR HRS \_\_\_\_\_  
 \_\_\_\_\_ ACC MUD MTR HR \_\_\_\_\_  
 \_\_\_\_\_ MONEL NO. \_\_\_\_\_  
 \_\_\_\_\_ LENGTH \_\_\_\_\_

DP ON LOC., SIZE NQ JTS 350 SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
 FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR Justin Braxfield

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 38 DATE 11/03/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG. \_\_\_\_\_  
 RIG DAYS 37 DRILLING DAYS 36 " LNR. \_\_\_\_\_  
 DEPTH @ 2400 HRS. 2306' FOOTAGE DRILLED 8'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLOOIE LN VLV# \_\_\_\_\_  
 HRS. DRILLED 4 HRS. TRIPPED 4 HRS. REPAIR \_\_\_\_\_ HRS. OTHER 16

MUD WT. \_\_\_\_\_ VISC. \_\_\_\_\_ W.L. \_\_\_\_\_ CK. \_\_\_\_\_ PH. \_\_\_\_\_ CHL. \_\_\_\_\_ YP \_\_\_\_\_ PV \_\_\_\_\_  
 GELS \_\_\_\_\_ SAND \_\_\_\_\_ SOLIDS \_\_\_\_\_ %LOST CIRC. MTL. \_\_\_\_\_ TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3" \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_  
 DP = \_\_\_\_\_  
 DC = \_\_\_\_\_

AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_  
 CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_

FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
15	NQ	LY	IMP	L18657	CORE	2295	2306	11				T B G
16	NQ	LY	IMP	L19536	CORE	2306						T B G

DRLG. ASSY. \_\_\_\_\_  
 STRING WT. \_\_\_\_\_ UP WT. \_\_\_\_\_ DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

## 24 HR SUMMARY:

0000-0130 DRILL F/2298' T/2301'  
 0130-0330 COND. HOLE. BUILD VIS TO 45  
 0330-0630 DRILL F/2301' T/2306'  
 0630-1030 P.O.O.H. - T.I.H.  
 1030-1200 COND. HOLE TO CEMENT  
 1200-1245 MIX CEMENT 13.4LBS.  
 1245-1310 PUMP CEMENT  
 1310-1415 P.O.O.H.  
 1415-2000 W.O.C.  
 2000-2045 R.I.H. TO 1940' CIRC. CASING SHOE  
 2045-2400 W.O.C.

MUD ADDITIVES  
 PRODUCT AMOUNT  
 GEL 6 36  
 DRISPAK 1 227

DAILY MUD COST 263  
 ACC COST 7,887  
 =====  
 WELL COSTS 3,845  
 FORWARD 185,888  
 ACC COST 189,733  
 AFE. 299,303  
 SUP. AFE \_\_\_\_\_

OPERATIONS @ 0500 HRS. \_\_\_\_\_  
 2400-0100 R.I.H. TAG CMT. @ 2161'  
 0100- DRILLING CMT. @ 2165'

CONTRACTOR ACCIDENTS:  
 YES \_\_\_\_\_ NO X

REMARKS: \_\_\_\_\_

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET \_\_\_\_\_  
 \_\_\_\_\_ DEPTH \_\_\_\_\_  
 \_\_\_\_\_ MUD MTR HRS \_\_\_\_\_  
 \_\_\_\_\_ ACC MUD MTR HR \_\_\_\_\_  
 \_\_\_\_\_ MONEL NO. \_\_\_\_\_  
 \_\_\_\_\_ LENGTH \_\_\_\_\_

DP ON LOC., SIZE NQ JTS 350 SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
 FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR Justin Brannfield

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 37 DATE 11/02/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 36 DRILLING DAYS 35 " LNR.  
 DEPTH @ 2400 HRS. 2298' FOOTAGE DRILLED 23'  
 ACCUM DRLG HRS.        SINCE LAST INSP.        BLOODE LN VLV#  
 HRS. DRILLED        HRS. TRIPPED        HRS. REPAIR        HRS. OTHER       

MUD WT. 8.6 VISC. 43 W.L. 7.2 CK. 1 PH. 10.5 CHL. 750 YP 8 PV 16  
 GELS 2/4 SAND TR SOLIDS 2.1 %LOST CIRC. MTL.        TEMP IN        OUT       

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                                   
 DP =         
 DC =       

AIR COMPS.        CFM        PSI        TEMP F.        PRESSURE IN        OUT       

CHEMICALS        RATE       

FORMATION DRILLED        MUD COOLER YES        NO        NO.       

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>13</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>22216</u>	<u>CORE</u>	<u>2274</u>	<u>2287</u>	<u>13</u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>T B G</u>
<u>14</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>22213</u>	<u>CORE</u>	<u>2287</u>	<u>2295</u>	<u>8</u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>T B G</u>
<u>15</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L18657</u>	<u>CORE</u>	<u>2295</u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>T B G</u>

DRLG. ASSY.       

STRING WT.        UP WT.        DN WT.        ROT TORQ.       

## 24 HR SUMMARY:

TIME	DRILL F/	T/	MUD ADDITIVES	PRODUCT	AMOUNT
<u>0000-0600</u>	<u>DRILL F/2275'</u>	<u>T/2287'</u>			
<u>0600-0930</u>	<u>BIT TRIP</u>				
<u>0930-1200</u>	<u>DRILL F/2287'</u>	<u>T/2292'</u>			
<u>1200-1730</u>	<u>DRILL F/2292'</u>	<u>T/2295'</u>			
<u>1730-1945</u>	<u>P.O.D.H. BIT TRIP</u>				
<u>1945-2000</u>	<u>R.I.H.</u>				
<u>2000-2400</u>	<u>DRILL F/2295'</u>	<u>T/2298'</u>			

DAILY MUD COST         
 ACC COST 7,624  
 WELL COSTS 3,792  
 FORWARD 182,096  
 ACC COST 185,888  
 AFE. 299,303  
 SUP. AFE       

OPERATIONS @ 0500 HRS.        CONTRACTOR ACCIDENTS:  
 YES        NO X

REMARKS:       

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET         
 DEPTH         
 MUD MTR HRS         
 ACC MUD MTR HR         
 MONEL NO.         
 LENGTH       

DP ON LOC., SIZE NQ JTS 350 SIZE        JTS         
 FUEL ON HAND        USED        REC'D        DRLG. SUPERVISOR Lester Bransford

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 36 DATE 11/01/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG. \_\_\_\_\_  
 RIG DAYS 35 DRILLING DAYS 34 " LNR. \_\_\_\_\_  
 DEPTH @ 2400 HRS. 2275' FOOTAGE DRILLED 61'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLODIE LN VLV# \_\_\_\_\_  
 HRS. DRILLED 18 HRS. TRIPPED 5 HRS. REPAIR \_\_\_\_\_ HRS. OTHER 1

=====

MUD WT. \_\_\_\_\_ VISC. 38 W.L. \_\_\_\_\_ CK. 1 PH. \_\_\_\_\_ CHL. 800 YP 8 PV 14  
 GELS 1/3 SAND TR SOLIDS 7.32 %LOST CIRC. MTL. \_\_\_\_\_ TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

=====

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3" \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_  
 DP = \_\_\_\_\_  
 DC = \_\_\_\_\_

AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_  
 CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_

FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_ NO. \_\_\_\_\_

=====

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>11</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>22214</u>	<u>CORE</u>	<u>2198</u>	<u>2225</u>	<u>27</u>	_____	_____	_____	T B G
<u>12</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>22215</u>	<u>CORE</u>	<u>2225</u>	<u>2274</u>	<u>49</u>	_____	_____	_____	T B G
<u>13</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>22216</u>	<u>CORE</u>	<u>2274</u>	_____	_____	_____	_____	_____	T B G

DRLG. ASSY. 13.2 CB 228 NQ RODS

STRING WT. 10260 UP WT. \_\_\_\_\_ DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

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24 HR SUMMARY:

	MUD ADDITIVES
	PRODUCT AMOUNT
<u>0000-0530</u> <u>DRILL F/2214' T/2225'</u>	
<u>0530-0830</u> <u>BIT TRIP</u>	
<u>0830-1200</u> <u>DRILL F/2225' T/2238'</u>	<u>GEL</u> <u>1</u> <u>6</u>
<u>1200-1945</u> <u>DRILL F/2238' T/2274'</u>	<u>DRISPAC</u> <u>1</u> <u>227</u>
<u>1945-2045</u> <u>P.O.D.H. BIT TRIP</u>	
<u>2045-2200</u> <u>SERVICE RIG</u>	
<u>2200-2300</u> <u>R.I.H.</u>	
<u>2300-2400</u> <u>DRILL F/2274' T/2275'</u>	
	<u>DAILY MUD COST</u> <u>333</u>
	<u>ACC COST</u> <u>7,624</u>

=====

WELL COSTS 4,657  
 FORWARD 177,439  
 ACC COST 182,096  
 AFE. 299,303  
 SUP. AFE \_\_\_\_\_

=====

OPERATIONS @ 0500 HRS. \_\_\_\_\_ CONTRACTOR ACCIDENTS:  
 YES \_\_\_\_\_ NO X

REMARKS: H2S MALFUNCTIONING

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M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET \_\_\_\_\_  
 DEPTH \_\_\_\_\_  
 MUD MTR HRS \_\_\_\_\_  
 ACC MUD MTR HR \_\_\_\_\_  
 MONEL NO. \_\_\_\_\_  
 LENGTH \_\_\_\_\_

DP ON LOC., SIZE NQ JTS 350 SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
 FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR Justin Brayfield

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 35 DATE 10/31/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 34 DRILLING DAYS 33 " LNR.  
 DEPTH @ 2400 HRS. 2214' FOOTAGE DRILLED 40'  
 ACCUM DRLG HRS.        SINCE LAST INSP.        BLODIE LN VLV#  
 HRS. DRILLED 20 HRS. TRIPPED 4 HRS. REPAIR 1 HRS. OTHER       

=====

MUD WT. 8.7 VISC. 40 W.L. 6.1 CK. 1 PH. 10 CHL. 800 YP 7 PV 15  
 GELS 2/3 SAND TR SOLIDS 2.8 %LOST CIRC. MTL.        TEMP IN        OUT       

=====

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                                   
 DP =         
 DC =       

AIR COMPS.        CFM        PSI        TEMP F.        PRESSURE IN        OUT         
 CHEMICALS        RATE       

FORMATION DRILLED        MUD COOLER YES        NO        NO.       

=====

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>10</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>22287</u>	<u>CORE</u>	<u>1951</u>	<u>2198</u>	<u>244</u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>T B G</u>
<u>11</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>22214</u>	<u>CORE</u>	<u>2198</u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>T B G</u>
<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>	<u>T B G</u>

DRLG. ASSY. 13.2 CB 207 NQ RODS  
 STRING WT. 9945 UP WT. 11750 DN WT.        ROT TORQ.       

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24 HR SUMMARY:

	MUD ADDITIVES	PRODUCT	AMOUNT
<u>0000-0815</u> <u>DRILL F/2174' T/2198'</u>	<u>GEL</u>	<u>1</u>	<u>6</u>
<u>0815-1100</u> <u>P.O.D.H. STARTED R.I.H.</u>	<u>DRISPAC</u>	<u>1</u>	<u>227</u>
<u>1100-1200</u> <u>REPAIR</u>	<u>      </u>	<u>      </u>	<u>      </u>
<u>1200-1300</u> <u>FINISH R.I.H. &amp; REPAIR</u>	<u>      </u>	<u>      </u>	<u>      </u>
<u>1300-2400</u> <u>DRILL F/2198' T/2214'</u>	<u>      </u>	<u>      </u>	<u>      </u>

=====

<u>      </u>	DAILY MUD COST	<u>333</u>
<u>      </u>	ACC COST	<u>7,291</u>
<u>      </u>	WELL COSTS	<u>4,643</u>
<u>      </u>	FORWARD	<u>168,256</u>
<u>      </u>	ACC COST	<u>177,439</u>
<u>      </u>	AFE.	<u>299,303</u>
<u>      </u>	SUP. AFE	<u>      </u>

=====

OPERATIONS @ 0500 HRS.        CONTRACTOR ACCIDENTS:  
 YES        NO X

REMARKS       

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M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET         
 DEPTH         
 MUD MTR HRS         
 ACC MUD MTR HR         
 MONEL NO.         
 LENGTH       

DP ON LOC., SIZE NQ JTS 350 SIZE        JTS         
 FUEL ON HAND        USED        REC'D        DRLG. SUPERVISOR       

*John Brassfield*

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 34 DATE 10/30/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 32 DRILLING DAYS 31 " LNR.  
 DEPTH @ 2400 HRS. 2174' FOOTAGE DRILLED 96'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLOOIE LN VLV# \_\_\_\_\_  
 HRS. DRILLED 24 HRS. TRIPPED \_\_\_\_\_ HRS. REPAIR \_\_\_\_\_ HRS. OTHER \_\_\_\_\_

MUD WT. \_\_\_\_\_ VISC. \_\_\_\_\_ W.L. \_\_\_\_\_ CK. \_\_\_\_\_ PH. \_\_\_\_\_ CHL. \_\_\_\_\_ YP \_\_\_\_\_ PV \_\_\_\_\_  
 GELS \_\_\_\_\_ SAND \_\_\_\_\_ SOLIDS \_\_\_\_\_ %LOST CIRC. MTL. \_\_\_\_\_ TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3" \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_  
 DP = \_\_\_\_\_  
 DC = \_\_\_\_\_  
 AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_  
 CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_  
 FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_ NO. \_\_\_\_\_

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
10	NQ	LY	IMP	22287	CORE	1951	1953	2				T B G
10	NQ	LY	IMP	22287	CORE	1953		125				T B G

DRLG. ASSY. 13.2 CB 207 NQ RODS  
 STRING WT. 9000 UP WT. 9750 DN WT. \_\_\_\_\_ ROT TORQ. 1200

## 24 HR SUMMARY:

	MUD ADDITIVES
	PRODUCT AMOUNT
0000-1200 Drilled f/2078 t/2225	GEL 1
1200-2400 DRILLED F/2125 T/2174	SODA ASH
	drispac 1

DAILY MUD COST 6  
 ACC COST 6,942  
 WELL COSTS 4,540  
 FORWARD 168,256  
 ACC COST 172,796  
 AFE. 299,303  
 SUP. AFE \_\_\_\_\_

OPERATIONS @ 0500 HRS. \_\_\_\_\_ CONTRACTOR ACCIDENTS:  
 YES \_\_\_\_\_ NO X

REMARKS \_\_\_\_\_

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET \_\_\_\_\_  
 DEPTH \_\_\_\_\_  
 MUD MTR HRS \_\_\_\_\_  
 ACC MUD MTR HR \_\_\_\_\_  
 MONEL NO. \_\_\_\_\_  
 LENGTH \_\_\_\_\_

DP ON LOC., SIZE NQ JTS S350 SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
 FUEL ON HAND USED REC'D \_\_\_\_\_ DRLG. SUPERVISOR BRASSFIELD

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 33 DATE 10/30/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.   
 RIG DAYS 32 DRILLING DAYS 31 " LNR.   
 DEPTH @ 2400 HRS. 2078' FOOTAGE DRILLED 76'  
 ACCUM DRLG HRS.  SINCE LAST INSP.  BLODIE LN VLV#   
 HRS. DRILLED 24 HRS. TRIPPED  HRS. REPAIR  HRS. OTHER

MUD WT.  VISC.  W.L.  CK.  PH.  CHL.  YP  PV   
 GELS  SAND  SOLIDS  %LOST CIRC. MTL.  TEMP IN  OUT

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"         
 DP =   
 DC =

AIR COMPS.  CFM  PSI  TEMP F.  PRESSURE IN  OUT   
 CHEMICALS  RATE

FORMATION DRILLED  MUD COOLER YES  NO  NO.

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
9	NQ	LY	IMP	L22288	CORE	1951	1953	2				T B G
10	NQ	LY	IMP	22287	CORE	1953		125				T B G
												T B G

DRLG. ASSY. 13.2 CB 207 NQ RODS  
 STRING WT. 9000 UP WT. 9750 DN WT.  ROT TORQ. 1200

## 24 HR SUMMARY:

0000-2400 drilled f/2002 t/2078

## MUD ADDITIVES

PRODUCT AMOUNT

GEL	2	6
SODA ASH		10
drispac	1	

DAILY MUD COST 128

ACC COST 6,936

WELL COSTS 4,662

FORWARD 163,594

ACC COST 168,256

AFE. 299,303

SUP. AFE

OPERATIONS @ 0500 HRS.

CONTRACTOR ACCIDENTS:

YES  NO X

REMARKS

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET

DEPTH

MUD MTR HRS

ACC MUD MTR HR

MONEL NO.

LENGTH

DP ON LOC., SIZE NQ JTS 350 SIZE  JTS

FUEL ON HAND USED REC'D  DRLG. SUPERVISOR Lester Bransfield

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 32 DATE 10/28/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 31 DRILLING DAYS 30 " LNR.  
 DEPTH @ 2400 HRS. 2002' FOOTAGE DRILLED 50'  
 ACCUM DRLG HRS.            SINCE LAST INSP.            BLOOIE LN VLV#             
 HRS. DRILLED 21 HRS. TRIPPED 3 HRS. REPAIR            HRS. OTHER           

MUD WT.            VISC.            W.L.            CK.            PH.            CHL.            YP            PV             
 GELS            SAND            SOLIDS            %LOST CIRC. MTL.            TEMP IN            OUT           

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                                                    
 DP =             
 DC =             
 AIR COMPS.            CFM            PSI            TEMP F.            PRESSURE IN            OUT             
 CHEMICALS            RATE             
 FORMATION DRILLED            MUD COOLER YES            NO            NO.           

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
9	NQ	LY	IMP	L22288	CORE	1951	1953	2				T B G
10	NQ	LY	IMP	22287	CORE	1953		49				T B G
												T B G

DRLG. ASSY. 13.2 CB 200 NQ RODS  
 STRING WT. 9000 UP WT. 9750 DN WT.            ROT TORQ. 1200

24 HR SUMMARY:		MUD ADDITIVES	
		PRODUCT	AMOUNT
0000-0300	PULL TUBES 1953'	GEL	1 6
0300-0430	T.O.D.H.	SODA ASH	1 10
0430-0600	T.I.H.		
0600-1200	DRILL F/1953' T/1974'		
1200-2400	DRILL F/1974' T/2002'		

DAILY MUD COST 16  
 ACC COST 6,824  
 WELL COSTS 4,042  
 FORWARD 159,552  
 ACC COST 163,594  
 AFE. 299,303  
 SUP. AFE           

OPERATIONS @ 0500 HRS.            CONTRACTOR ACCIDENTS:  
 YES            NO X

REMARKS           

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET             
 DEPTH             
 MUD MTR HRS             
 ACC MUD MTR HR             
 MONEL NO.             
 LENGTH           

DP ON LOC., SIZE NQ JTS 350 SIZE            JTS             
 FUEL ON HAND            USED            REC'D            DRLG. SUPERVISOR Lester Braxfield

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 31 DATE 10/27/93 AFE NO. E48W113 3 1/2" CSG. 1941'  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG. \_\_\_\_\_  
 RIG DAYS 30 DRILLING DAYS 29 " LNR. \_\_\_\_\_  
 DEPTH @ 2400 HRS. 1952' FOOTAGE DRILLED 1'  
 ACCUM DRLG HRS. \_\_\_\_\_ SINCE LAST INSP. \_\_\_\_\_ BLOODE LN VLV# \_\_\_\_\_  
 HRS. DRILLED 1 HRS. TRIPPED 6 HRS. REPAIR \_\_\_\_\_ HRS. OTHER 17

MUD WT. \_\_\_\_\_ VISC. \_\_\_\_\_ W.L. \_\_\_\_\_ CK. \_\_\_\_\_ PH. \_\_\_\_\_ CHL. \_\_\_\_\_ YP \_\_\_\_\_ PV \_\_\_\_\_  
 BELS \_\_\_\_\_ SAND \_\_\_\_\_ SOLIDS \_\_\_\_\_ %LOST CIRC. MTL. \_\_\_\_\_ TEMP IN \_\_\_\_\_ OUT \_\_\_\_\_

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3" \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_  
 DP = \_\_\_\_\_  
 DC = \_\_\_\_\_

AIR COMPS. \_\_\_\_\_ CFM \_\_\_\_\_ PSI \_\_\_\_\_ TEMP F. \_\_\_\_\_ PRESSURE IN \_\_\_\_\_ OUT \_\_\_\_\_

CHEMICALS \_\_\_\_\_ RATE \_\_\_\_\_

FORMATION DRILLED \_\_\_\_\_ MUD COOLER YES \_\_\_\_\_ NO \_\_\_\_\_ NO. \_\_\_\_\_

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>7</u>	<u>NQ</u>	<u>LY</u>	<u>IMP</u>	<u>L22288</u>	<u>CORE</u>	<u>1951</u>		<u>1</u>				T B G
												T B G
												T B G

DRLG. ASSY. \_\_\_\_\_

STRING WT. \_\_\_\_\_ UP WT. \_\_\_\_\_ DN WT. \_\_\_\_\_ ROT TORQ. \_\_\_\_\_

## 24 HR SUMMARY:

0000-0600	WORK STUCK PIPE
0600-1000	TRY TO BACK OFF. BACKED OFF TO HIGH
1000-1100	CONDITION HOLE
1100-1200	P.O.D.H. LAY DOWN 97 JT'S HQ PIPE
1200-1300	FINISH P.O.D.H. & LAY DOWN PIPE
1300-1700	R.I.H. NQ CASE
1700-1900	R/U B.O.P. TO NQ
1900-2045	R.I.H. NQ
2045-2100	CIRC.
2100-2240	DRILL LANDING RING
2240-2250	DRILL BIT
2250-2325	ADD ROD & WASH TO BOTTOM
2325-2400	DRILL AHEAD F/1951 T/1952

## MUD ADDITIVES

PRODUCT	AMOUNT
DAILY MUD COST	
ACC COST	<u>6,808</u>
WELL COSTS	<u>3,481</u>
FORWARD	<u>156,071</u>
ACC COST	<u>159,552</u>
AFE.	<u>299,303</u>
SUP. AFE	

OPERATIONS @ 0500 HRS. \_\_\_\_\_

CONTRACTOR ACCIDENTS:  
 YES \_\_\_\_\_ NO X

REMARKS \_\_\_\_\_

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET \_\_\_\_\_  
 DEPTH \_\_\_\_\_  
 MUD MTR HRS \_\_\_\_\_  
 ACC MUD MTR HR \_\_\_\_\_  
 MONEL NO. \_\_\_\_\_  
 LENGTH \_\_\_\_\_

DP ON LOC., SIZE NQ JTS 350 SIZE \_\_\_\_\_ JTS \_\_\_\_\_  
 FUEL ON HAND \_\_\_\_\_ USED \_\_\_\_\_ REC'D \_\_\_\_\_ DRLG. SUPERVISOR \_\_\_\_\_

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 30 DATE 10/26/93 AFE NO. E48W113 " CSG.  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 29 DRILLING DAYS 28 " LNR.  
 DEPTH @ 2400 HRS. 1951' FOOTAGE DRILLED  
 ACCUM DRLG HRS.            SINCE LAST INSP.            BLODIE LN VLV#  
 HRS. DRILLED            HRS. TRIPPED 5 HRS. REPAIR            HRS. OTHER 19

MUD WT.            VISC.            W.L.            CK.            PH.            CHL.            YP            PV             
 GELS            SAND            SOLIDS            %LOST CIRC. MTL.            TEMP IN            OUT           

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                                                               
 DP =             
 DC =           

AIR COMPS.            CFM            PSI            TEMP F.            PRESSURE IN            OUT             
 CHEMICALS            RATE           

FORMATION DRILLED            MUD COOLER YES            NO            NO.           

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>9</u>	<u>HQ</u>	<u>LY</u>	<u>IMP</u>	<u>L21981</u>	<u>CORE</u>	<u>1940</u>	<u>          </u>	<u>11</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>T B G</u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>T B G</u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>T B G</u>

DRLG. ASSY.             
 STRING WT.            UP WT.            DN WT.            ROT TORQ.           

## 24 HR SUMMARY:

TIME	DESCRIPTION	MUD ADDITIVES	AMOUNT
<u>0000-0400</u>	<u>P.U. NQ PIPE R.I.H.</u>	<u>          </u>	<u>          </u>
<u>0400-0800</u>	<u>HAMMER STUCK PIPE</u>	<u>          </u>	<u>          </u>
<u>0800-1030</u>	<u>CHANGE DRILL LINE</u>	<u>          </u>	<u>          </u>
<u>1030-1200</u>	<u>P.O.O.H. NQ PIPE</u>	<u>          </u>	<u>          </u>
<u>1200-2400</u>	<u>R/U HQ &amp; WORK PIPE</u>	<u>          </u>	<u>          </u>

DAILY MUD COST             
 ACC COST 6,808  
 WELL COSTS 3,470  
 FORWARD 152,601  
 ACC COST 156,071  
 AFE. 299,303  
 SUP. AFE           

OPERATIONS @ 0500 HRS.            CONTRACTOR ACCIDENTS:  
 YES            NO X

REMARKS           

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET             
 DEPTH             
 MUD MTR HRS             
 ACC MUD MTR HR             
 MONEL NO.             
 LENGTH           

DP ON LOC., SIZE HQ JTS 293 SIZE NQ JTS 201  
 FUEL ON HAND            USED            REC'D            DRLG. SUPERVISOR

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 29 DATE 10/25/93 AFE NO. E48W113 " CSG.  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 28 DRILLING DAYS 27 " LNR.  
 DEPTH @ 2400 HRS. 1951' FOOTAGE DRILLED  
 ACCUM DRLG HRS.            SINCE LAST INSP.            BLODIE LN VLV#  
 HRS. DRILLED            HRS. TRIPPED            HRS. REPAIR            HRS. OTHER 24

MUD WT.            VISC.            W.L.            CK.            PH.            CHL.            YP            PV             
 GELS            SAND            SOLIDS            %LOST CIRC. MTL.            TEMP IN            OUT           

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3"                                                                               
 DP =             
 DC =           

AIR COMPS.            CFM            PSI            TEMP F.            PRESSURE IN            OUT             
 CHEMICALS            RATE           

FORMATION DRILLED            MUD COOLER YES            NO            NO.           

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>2</u>	<u>HQ</u>	<u>LY</u>	<u>IMP</u>	<u>L21981</u>	<u>CORE</u>	<u>1940</u>	<u>          </u>	<u>11</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
												<u>T</u> <u>B</u> <u>G</u>
												<u>T</u> <u>B</u> <u>G</u>
												<u>T</u> <u>B</u> <u>G</u>

DRLG. ASSY. C.B. 13.5 H.Q. DP. 195 JT'S.

STRING WT.            UP WT.            DN WT.            ROT TORQ.           

## 24 HR SUMMARY:

	MUD ADDITIVES	
	PRODUCT	AMOUNT
<u>0000-1200</u>	<u>WORK STUCK PIPE</u>	<u>          </u>
<u>1200-2230</u>	<u>WORK STUCK PIPE</u>	<u>          </u>
<u>2230-2400</u>	<u>R.I.H. W/NQ PIPE T/600'</u>	<u>          </u>

DAILY MUD COST	
ACC COST	<u>6,808</u>
=====	
WELL COSTS	<u>3,470</u>
FORWARD	<u>149,131</u>
ACC COST	<u>152,601</u>
AFE.	<u>299,303</u>
SUP. AFE	<u>          </u>

OPERATIONS @ 0500 HRS. R.I.H. W/NQ PIPE CONTRACTOR ACCIDENTS:  
 YES            NO            X           

REMARKS           

M.D.	ANGLE	DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

DP ON LOC., SIZE HQ JTS 293 SIZE NQ JTS 201  
 FUEL ON HAND            USED            REC'D            DRLG. SUPERVISOR

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 28 DATE 10/24/93 AFE NO. E48W113 " CSG.   
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.   
 RIG DAYS 27 DRILLING DAYS 26 " LNR.   
 DEPTH @ 2400 HRS. 1951' FOOTAGE DRILLED 11'  
 ACCUM DRLG HRS.  SINCE LAST INSP.  BLODIE LN VLV#   
 HRS. DRILLED  HRS. TRIPPED  HRS. REPAIR  HRS. OTHER

=====

MUD WT. 8.8 VISC. 45 W.L. 8.8 CK. 1 PH. 11.5 CHL. 1300 YP 8 PV 18  
 GELS 2/4 SAND 1% SOLIDS 3.5 %LOST CIRC. MTL.  TEMP IN  OUT

=====

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
<u>1</u>	<u>2 1/4</u>	<u>3"</u>	<u>85</u>	<u>17</u>	<u>100</u>			
								DP =
								DC =

AIR COMPS.  CFM  PSI  TEMP F.  PRESSURE IN  OUT

CHEMICALS  RATE

FORMATION DRILLED  MUD COOLER YES  NO  NO.

=====

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>9</u>	<u>HQ</u>	<u>LY</u>	<u>IMP</u>	<u>L21981</u>	<u>CORE</u>	<u>1940</u>		<u>11</u>				
												T B G
												T B G
												T B G

DRLG. ASSY. C.B. 13.5 H.Q. DP. 195 JT'S.

STRING WT.  UP WT.  DN WT.  ROT TORQ.

## 24 HR SUMMARY:

0000-0200 <u>W.D.C.</u> 0200-0230 <u>T.I.H.</u> 0230-0300 <u>TAG SAND BRIDGE @ 900' CIRC. OUT</u> 0300-0420 <u>T.I.H. &amp; WASH TO 1620'</u> 0420-0440 <u>CIRC. B.U.</u> 0440-0730 <u>CIRC. (CEMENT GREEN)</u> 0730-1100 <u>WASH TO BOTTOM</u> 1100-1130 <u>CIRC. B.U.</u> 1130-1200 <u>TRIP TUBE</u> 1200-1600 <u>DRILL F/1940' T/1951'</u> 1600-2400 <u>TRIP TUBE &amp; STUCK RODS</u>	MUD ADDITIVES PRODUCT      AMOUNT GEL      16      93 DRISPAC 2      454 DAILY MUD COST      547 ACC COST      6,808 ===== WELL COSTS      5,337 FORWARD      143,794 ACC COST      149,131 AFE.      299,303 SUP. AFE <u></u>
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OPERATIONS @ 0500 HRS.  STUCK

CONTRACTOR ACCIDENTS:  
 YES  NO X

REMARKS

=====

M.D. ANGLE DIR. <u></u> T.V.D. <u></u> V.SEC. <u></u> N-S CORR. <u></u> E-W CORR. <u></u> D.L.S. <u></u> TARGET <u></u>	DEPTH <u></u>
	MUD MTR HRS <u></u>
	ACC MUD MTR HR <u></u>
	MONEL NO. <u></u>
	LENGTH <u></u>

DP ON LOC., SIZE HQ JTS 293 SIZE  JTS

FUEL ON HAND  USED  REC'D  DRLG. SUPERVISOR

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 27 DATE 10/23/93 AFE NO. E48W113 " CSG.  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 26 DRILLING DAYS 23 " LNR.  
 DEPTH @ 2400 HRS. 1940' FOOTAGE DRILLED 2  
 ACCUM DRLG HRS. 1 SINCE LAST INSP. 5 BLOODE LN VLV#  
 HRS. DRILLED 1 HRS. TRIPPED 5 HRS. REPAIR 0 HRS. OTHER 18

MUD WT. 8.6 VISC. 36 W.L. CK. PH. CHL. YP PV  
 BELS SAND SOLIDS %LOST CIRC. MTL. TEMP IN OUT

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
1	2 1/4	3"	85	19	100			

AIR COMPS. CFM PSI TEMP F. PRESSURE IN OUT  
 CHEMICALS RATE

FORMATION DRILLED MUD COOLER YES NO NO.

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
7	HQ	LY	IMP	L22781	CORE	1889		49				

DRLG. ASSY. UP WT. DN WT. ROT TORQ.

## 24 HR SUMMARY:

0000-0600	DRILL OUT CMT 880 - 1018
0600-0730	RIH T/1728
0730-1330	WASH T/1938
1330-1430	DRILLED F/1938 T/1940
1430-1730	CIRC. POH, RIH WITH OEDP T/1790
1730-1900	MIX AND PUMP 15.8# CMT 1790-1500
1900-2400	POH WDC

MUD ADDITIVES	
PRODUCT	AMOUNT
GEL 17	98.60
DRISPAC 1	114.00

DAILY MUD COST	212
ACC COST	5,915
WELL COSTS	3,132
FORWARD	137,260
ACC COST	140,662
AFE.	299,303
SUP. AFE	

OPERATIONS @ 0500 HRS. WDC

CONTRACTOR ACCIDENTS:  
 YES NO X

REMARKS

M.D.	ANGLE DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
							DEPTH
							MUD MTR HRS
							ACC MUD MTR HR
							MONEL NO.
							LENGTH

OP ON LOC., SIZE HQ JTS 293 SIZE JTS  
 FUEL ON HAND USED REC'D DRLG. SUPERVISOR

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 26 DATE 10/22/93 AFE NO. E48W113 " CSG.  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 25 DRILLING DAYS 23 " LNR.  
 DEPTH @ 2400 HRS. 1938' FOOTAGE DRILLED  
 ACCUM DRLG HRS.            SINCE LAST INSP.            BLOOIE LN VLV#  
 HRS. DRILLED            HRS. TRIPPED 13 HRS. REPAIR 0 HRS. OTHER 11

MUD WT. 8.6 VISC. 36 W.L.            CK.            PH.            CHL.            YP            PV             
 GELS SAND SOLIDS            %LOST CIRC. MTL.            TEMP IN            OUT           

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3" 85 19 100                                   
 DP =             
 DC =           

AIR COMPS.            CFM            PSI            TEMP F.            PRESSURE IN            OUT             
 CHEMICALS            RATE           

FORMATION DRILLED            MUD COOLER YES            NO            NO.           

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>7</u>	<u>HQ</u>	<u>LY</u>	<u>IMP</u>	<u>L22781</u>	<u>CORE</u>	<u>1889</u>	<u>          </u>	<u>49</u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>T B G</u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>T B G</u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>T B G</u>

DRLG. ASSY.             
 STRING WT.            UP WT.            DN WT.            ROT TORQ.           

## 24 HR SUMMARY:

0000-0100 WASH T/1728  
 0100-0230 TUBE SANDED IN  
 0235-0400 T.O.D.H.  
 0400-1100 CLEAN CORE BARREL TIH HIT BRIDGE @ 1610  
           BUILD MUD VOLUME WASH T/1710  
 1100-1200 POH  
 1200-1300 R.I.H. WITH OEDP T/1758  
 1300-1630 MIX AND PUMP 168 LF CMT PLUG POH  
 1630-2200 WOC  
 2200-2400 RIH TAG CMT @ 860

MUD ADDITIVES	
PRODUCT	AMOUNT
GEL	4
DRISPAC	1
	227

DAILY MUD COST 251  
 ACC COST 5,803  
 =====  
 WELL COSTS 3,402  
 FORWARD 137,260  
 ACC COST 140,662  
 AFE. 299,303  
 SUP. AFE           

OPERATIONS @ 0500 HRS.           

CONTRACTOR ACCIDENTS:  
 YES            NO X

REMARKS           

M.D.	ANGLE	DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	DEPTH <u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	MUD MTR HRS <u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	ACC MUD MTR HR <u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	MONEL NO. <u>          </u>
<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>	LENGTH <u>          </u>

DP ON LOC., SIZE HQ JTS 293 SIZE            JTS             
 FUEL ON HAND            USED            REC'D            DRLG. SUPERVISOR

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 25 DATE 10/21/93 AFE NO. E48W113 " CSG.  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 24 DRILLING DAYS 23 " LNR.  
 DEPTH @ 2400 HRS. 1938' FOOTAGE DRILLED  
 ACCUM DRLG HRS. SINCE LAST INSP. BLODIE LN VLV#  
 HRS. DRILLED HRS. TRIPPED HRS. REPAIR 7 HRS. OTHER 18

MUD WT. 8.6 VISC. 36 W.L. CK. PH. CHL. YP PV  
 GELS SAND SOLIDS %LOST CIRC. MTL. TEMP IN OUT

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
 1 2 1/4 3" 85 19 100 DP =

AIR COMPS. CFM PSI TEMP F. PRESSURE IN OUT  
 CHEMICALS RATE

FORMATION DRILLED MUD COOLER YES NO NO.

BIT SIZE MAKE TYPE SER.# JETS IN OUT FT HRS WT RPM COND.  
 7 HQ LY IMP L22781 CORE 1889 49 T B G  
 T B G  
 T B G

DRLG. ASSY. UP WT. DN WT. ROT TORQ.

24 HR SUMMARY: MUD ADDITIVES  
 0000-0100 R.I.H. TO CEMENT PRODUCT AMOUNT  
 0100-0215 MIX & PUMP CEMENT GEL 4 24  
 0215-0330 T.O.D.H. DRISPAC 1 227  
 0330-1100 W.D.C.  
 1100-1200 RIG MODIFICATION  
 1200-1830 RIG MODIFICATION  
 1830-2100 R.I.H. C/O SAND TO 1600'  
 2100-2200 1600' TO 1680' SAND MIXED W/CEMENT  
 1680' HARD CEMENT  
 2200-2400 DRILL HARD CMT. F/1680' T/1708'

DAILY MUD COST 251  
 ACC COST 5,803  
 WELL COSTS 4,009  
 FORWARD 133,251  
 ACC COST 137,260  
 AFE. 299,303  
 SUP. AFE

OPERATIONS @ 0500 HRS.  
 1708' TO 1778' SOFTER CMT. & SAND

CONTRACTOR ACCIDENTS:  
 YES NO X

REMARKS

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET  
 DEPTH  
 MUD MTR HRS  
 ACC MUD MTR HR  
 MONEL NO.  
 LENGTH

OP ON LOC., SIZE HQ JTS 293 SIZE JTS  
 FUEL ON HAND USED REC'D DRLG. SUPERVISOR *John Brassfield*

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 24 DATE 10/20/93 AFE NO.            " CSG.  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 23 DRILLING DAYS            " LNR.  
 DEPTH @ 2400 HRS. 1938' FOOTAGE DRILLED 49' " TOL.  
 ACCUM DRLG HRS.            SINCE LAST INSP.            BLOODE LN VLV#             
 HRS. DRILLED 13 HRS. TRIPPED 3 HRS. REPAIR -0- HRS. OTHER 8

MUD WT. 8.6 VISC. 40 W.L.            CK. 1/32 PH. 8.9 CHL. 450 YP 9 PV 6.5  
 ELS 1/4 SAND 3.5 %SOLIDS 4.2 %LOST CIRC. MTL.            TEMP IN            OUT           

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
FMC	2.25	3"	90	20				

AIR COMPS.            CFM            PSI            TEMP F.            CHEM.            RATE             
 PRESSURE IN            PRESSURE OUT            ENTRIES (DEPTH, PRESS.)             
 FORMATION DRILLED            MUD COOLER YES            NO            NO.           

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
7	HQ	LY	IMP	22781	C	1889	INC					T B G
												T B G
												T B G

DRLG. ASSY. CB-13.5-HQ DP 193'  
 STRING WT.            UP WT.            DN WT.            ROT TORQ.           

**24 HR SUMMARY:**  
 0000-0330 TIH, WASH TO BOTTOM.  
 0330-0745 DRILL F/1889' T/1908'  
 0745-0830 POOH 5 STDS. CLEAN HOLE, 4" FILL  
           ON BOTTOM, (CAVE @ 1724')  
 0830-1200 DRILL F/1908' T/1921'  
 1200-1300 DRILL F/1921' T/ 1923'  
 1300-1630 POOH T/ 1100' COND. HOLE, RIH TO  
           1200' CIRC. & WASH TO BOTTOM.  
 1630-2100 DRILL F/1923' T/1938'  
 2100-2215 CIRC. & PREP. FOR CMT.  
 2215-2300 POOH.  
 2300-2400 RIH OEDP.

DRILLING MUD ADDITIVES	
PRODUCT	AMOUNT
KWIK BEN	5
DRISPAC	1
BARITE	5
DAILY MUD COST <u>172</u>	
ACC MUD COST <u>5,552</u>	
DAILY WELL COST <u>4,230</u>	
FORWARD <u>129,019</u>	
ACC. WELL COST <u>133,249</u>	
AFE. <u>(299,303)</u>	
SUP. AFE. <u>          </u>	

OPERATIONS @ 0500 HRS.           

CONTRACTOR ACCIDENTS:  
 YES            NO X  
 REMARKS           

M.D.	ANGLE DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
							DEPTH
							MUD MTR HRS
							ACC MUD MTR HR
							MONEL NO.
							LENGTH

DP ON LOC., SIZE HQ JTS 293 SIZE            JTS             
 FUEL ON HAND            USED            REC'D            DRLG. SUPERVISOR L. BRASSFIELD

# CALIFORNIA ENERGY CO., INC. - DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 23 DATE 10/19/93 AFE NO. E48W113 " CSG.  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 22 DRILLING DAYS 21 " LNR.  
 DEPTH @ 2400 HRS. 1889' FOOTAGE DRILLED 121'  
 ACCUM DRLG HRS.            SINCE LAST INSP.            BLOODE LN VLV#             
 HRS. DRILLED 23 HRS. TRIPPED 1 HRS. REPAIR            HRS. OTHER           

MUD WT. 8.8 VISC.            W.L.            CK. 1 PH. 8.8 CHL. 400 YP 4 PV 14  
 GELS 1/3 SAND            SOLIDS 4.9 %LOST CIRC. MTL.            TEMP IN            OUT           

PUMPS LINER STROKE SPM. GPM. PSI. TOTAL GPM NOZZLE VEL ANNULAR VEL  
1 2 1/4 3" 85 19 100                                   
 DP =             
 DC =             
 AIR COMPS.            CFM            PSI            TEMP F.            PRESSURE IN            OUT             
 CHEMICALS            RATE             
 FORMATION DRILLED            MUD COOLER YES            NO            NO.           

BIT SIZE MAKE TYPE SER.# JETS IN OUT FT HRS WT RPM COND.  
6 HQ LY IMP L22777 CORE 1524 1889 365                                              
                                                                                                                                                
                                                                                                                                              

DRLG. ASSY. CB 13.5 HQ PIPE 189 JTS.             
 STRING WT. 11,340 UP WT. 12,000 DN WT.            ROT TORQ.           

## 24 HR SUMMARY:

TIME	DRILL F/	T/	MUD ADDITIVES	PRODUCT	AMOUNT
0000-1200	DRILL F/1768'	T/1855'	GEL		
1200-2300	DRILL F/1855'	T/1889'	SODA ASH	1	10
2300-2400	P.O.O.H.		DETER.	1	35

DAILY MUD COST 45  
 ACC COST 5,380  
 =====  
 WELL COSTS 5,067  
 FORWARD 123,952  
 ACC COST 129,019  
 AFE. 299,303  
 SUP. AFE           

OPERATIONS @ 0500 HRS.             
 CONTRACTOR ACCIDENTS:  
 YES            NO X

REMARKS           

M.D. ANGLE DIR. T.V.D. V.SEC. N-S CORR. E-W CORR. D.L.S. TARGET             
                                                                                         
                                                                                         
                                                                                         
                                                                                       

DP ON LOC., SIZE HQ JTS 293 SIZE            JTS             
 FUEL ON HAND            USED            REC'D            DRLG. SUPERVISOR           

*Justin Bransfield*

# CALIFORNIA ENERGY CO., INC.-DAILY DRILLING REPORT

WELL NO. TCH 48-11 4 1/2" CSG. 475'  
 REPORT NO. 22 DATE 10/18/93 AFE NO. E48W113 " CSG.  
 CONTRACTOR LONGYEAR RIG NO. 602 " CSG.  
 RIG DAYS 21 DRILLING DAYS 20 " LNR.  
 DEPTH @ 2400 HRS. 1768' FOOTAGE DRILLED 190'  
 ACCUM DRLG HRS.        SINCE LAST INSP.        BLODIE LN VLV#         
 HRS. DRILLED 24 HRS. TRIPPED        HRS. REPAIR        HRS. OTHER       

MUD WT. 8.7 VISC. 37 W.L.        CK. 1 PH. 8.8 CHL. 300 YP 4 PV 7  
 GELS 0/2 SAND        SOLIDS 3.5 %LOST CIRC. MTL.        TEMP IN        OUT       

PUMPS	LINER	STROKE	SPM.	GPM.	PSI.	TOTAL GPM	NOZZLE VEL	ANNULAR VEL
<u>1</u>	<u>2 1/4</u>	<u>3"</u>	<u>85</u>	<u>19</u>	<u>100</u>			

AIR COMPS.        CFM        PSI        TEMP F.        PRESSURE IN        OUT         
 CHEMICALS        RATE       

FORMATION DRILLED        MUD COOLER YES        NO       

BIT	SIZE	MAKE	TYPE	SER.#	JETS	IN	OUT	FT	HRS	WT	RPM	COND.
<u>6</u>	<u>HQ</u>	<u>LY</u>	<u>IMP</u>	<u>L22777</u>	<u>CORE</u>	<u>1524</u>		<u>244</u>				

DRLG. ASSY. CB 13.5 HQ PIPE 177 JTS.  
 STRING WT. 10,620 UP WT. 11,000 DN WT.        ROT TORQ. 2300 @ 3700

## 24 HR SUMMARY:

0000-1200 DRILL F/1578' T/1677'  
 1200-2400 DRILL F/1678' T/1768'

MUD ADDITIVES	
PRODUCT	AMOUNT
GEL	<u>4</u> <u>24</u>
DRISPAC	<u>1</u> <u>227</u>
DETER.	<u>1</u> <u>35</u>
TORKEASE	<u>1</u> <u>60</u>

DAILY MUD COST 346  
 ACC COST 5,335  
 WELL COSTS 6,196  
 FORWARD 117,756  
 ACC COST 123,952  
 AFE. 299,303  
 SUP. AFE       

OPERATIONS @ 0500 HRS.       

CONTRACTOR ACCIDENTS:  
 YES        NO X

REMARKS       

M.D.	ANGLE	DIR.	T.V.D.	V.SEC.	N-S CORR.	E-W CORR.	D.L.S.	TARGET
								DEPTH
								MUD MTR HRS
								ACC MUD MTR HR
								MONEL NO.
								LENGTH

DP ON LOC., SIZE HQ JTS 293 SIZE        JTS         
 FUEL ON HAND        USED        REC'D        DRLG. SUPERVISOR Lester Brassfield