

LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Chinua Lake Date: 8 23 1983 Drill HD 500 13354 13356
MONTH DAY TYPE DRILL NO. TRUCK NO.
Location: Caso, Cal. Fm. 114 Foreman's Signature: Darryl W. Ferguson

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Recovered	Size	Footage
					From	To	From	To				
Day A	<u>CGC TCH</u> <u>74-2</u>	<u>90</u>		<u>PQWL</u>	<u>1013</u>	<u>1038</u>			<u>25</u>	<u>21</u>		
Aft B	<u>CGC TCH</u> <u>74-2</u>	<u>90</u>		<u>PQWL</u>	<u>1038</u>	<u>1067</u>			<u>29</u>	<u>29</u>		
Nite C	<u>CGC TCH</u> <u>74-2</u>	<u>90</u>		<u>PQWL</u>	<u>1067</u>	<u>1078</u>			<u>11</u>	<u>11</u>		

Hourly Distribution				Supplies Consumed			
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Day Aft. Nite
Handling Rod (change bit)	<u>8</u>	<u>8</u>	<u>6</u>	Portland			
Overburden - rock bit				Lumnite			
Collaring Hole - Dia. bit				Calseal			
Rotary Drilling				Mud	50#	<u>NOVA</u>	<u>10</u> <u>8</u> <u>9</u>
Handling Rod (bit)				Mud	100#		
Rock Bit - Overburden				Other (Describe)			
Reaming (to)				<u>CMC</u> <u>50#</u>		<u>Legnirc</u>	<u>1</u> <u>1</u> <u>1</u>
Casing - Placing				<u>Poly</u> <u>6</u> (<u>5gal</u>)			
- Pulling							
Delays - Client Acct.							
Cementing - Handling Rods							
- Prep Hole & Grout							
- Setting							
- Drilling							
Moving - Hole to Hole							
Rigging Up - Rigging Down							
Mix Mud							
Condition Hole, Lost Circulation							
Surveying, Inclination Test							
Mobilization/Demobilization							
Other (Explain)							
Total Hours	<u>9</u>	<u>8</u>	<u>8</u>				
Driller's Initials	<u>RA</u>	<u>RL</u>	<u>CA</u>				

OTHER
Water hauling 162 miles 9 loads
Core boxes: size/ no.
Length of waterline:
Lost tools: Description
Lost bits: Size Serial no.
Depth: ft. Hole #
Casing lost or left in hole: Size ft.
for Client Hole #
Longco Hole #
Bit changes: Size Serial # Depth
(Include PQWL 13881 1078 RECEIVED
first bit
in hole) SEP 1 - 1983
C.E.C.I.

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>K.R. Hail</u>	<u>8</u>	<u>L. Barry</u>	<u>8</u>	<u>D. Altman</u>	<u>8</u>
B	<u>R. Loveloy</u>	<u>8</u>	<u>D. Ferguson</u>	<u>8</u>	<u>W. Shillman</u>	<u>8</u>
C	<u>G. Anderson</u>	<u>8</u>	<u>W. Bigler</u>	<u>8</u>	<u>L. Jenkins</u>	<u>8</u>

Remarks: No core 1022 to 1026
3 Shifts water Truck
B.P. Bishop

NOTE: If item is chargeable to client, place circle around time entry. Please follow instructions on reverse side.

LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: CHINA LAKE Date: 8 22 1983 Drill HD-500 1335413356
MONTH DAY TYPE DRILL NO. TRUCK NO.
Location: COSE, CALIFORNIA Foreman's Signature: Doug W. Ferguson

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Recovered	Size	Footage
					From	To	From	To				
Day A	<u>PQWL 90'</u>			<u>PQWL</u>	<u>963</u>	<u>779</u>			<u>16</u>	<u>16</u>		
Aft B	<u>CGC-TCH 90</u> <u>74-2</u>			<u>PQWL</u>	<u>979</u>	<u>996</u>			<u>17</u>	<u>17</u>		
Nite C	<u>CGC-TCH</u> <u>74-2 90</u>			<u>PQWL</u>	<u>996</u>	<u>1013</u>			<u>17</u>	<u>17</u>		

Hourly Distribution		Day	Aft.	Nite
Core Drilling		<u>6</u>	<u>6</u>	<u>5</u>
Handling Rod (change bit)			<u>2</u>	
Overburden - rock bit				
Collaring Hole - Dia. bit				
Rotary Drilling				
Handling Rod (bit)				
Rock Bit - Overburden				
Reaming (to)				
Casing - Placing				
- Pulling				
Delays - Client Acct.				
Cementing - Handling Rods				
- Prep Hole & Grout				
- Setting				
- Drilling				
Moving - Hole to Hole				
Rigging Up - Rigging Down				
Mix Mud				
Condition Hole, Lost Circulation				
Surveying, Inclination Test				
Mobilization/Demobilization				
Other (Explain)				
<u>Drilling Case</u>		<u>(2)</u>		<u>(3)</u>
Total Hours		<u>8</u>	<u>8</u>	<u>8</u>
Driller's Initials		<u>RL</u>	<u>CA</u>	

Supplies Consumed		Day	Aft.	Nite
Description	Size	Number of Units		
Portland				
Lumnite				
Calseal				
Mud	50#	<u>11</u>	<u>10</u>	<u>13</u>
Mud	100#			
Other (Describe)				
<u>CMC 50#</u>		<u>1</u>		<u>1</u>
<u>Poly-Crete L Seal</u>		<u>1</u>		<u>1</u>
<u>Legnate</u>			<u>1</u>	
<u>SGALS Rod Lube</u>			<u>1</u>	
OTHER				
Water hauling	miles	<u>9</u>		
Core boxes:	size/			
Length of waterline:				
Lost tools: Description				
Lost bits: Size	Serial no.	<u>SEP 1 - 1983</u>		
Depth:	ft. Hole #			
Casing lost or left in hole: Size	ft.	<u>C.E.C.I.</u>		
for Client	Hole #			
Longco	Hole #			
Bit changes:	Size	Serial #	Depth	
(Include first bit in hole)	<u>PQWL</u>	<u>120699</u>	<u>996</u>	<u>BIT</u>
	<u>PQWL</u>	<u>LS3904</u>	<u>996</u>	<u>SHELL</u>

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>K.R. Hall</u>	<u>8</u>	<u>L. Barry</u>	<u>8</u>	<u>D. ALTMAN</u>	<u>8</u>
B	<u>R. Lovelox</u>	<u>8</u>	<u>D. Ferguson</u>	<u>8</u>	<u>W. SHULMAN</u>	<u>8</u>
C	<u>C. Anderson</u>	<u>8</u>	<u>W. Bigler</u>	<u>8</u>	<u>L. Jenkins</u>	<u>8</u>

Remarks: 4 hrs. Drill casing.
3 Shifts water hauler
B.P. Bishop

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Chipp Lake Date: 4 21 1983 Drill HD 500 13354 13356
 Location: Caso, California Foreman's Signature: Doug W. Ferguson
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Re-covered	Size	Footage
					From	To	From	To				
Day A	<u>CGCTCH 74-2</u>	<u>90</u>		<u>PQWL</u>	<u>899</u>	<u>930</u>			<u>31</u>	<u>31</u>		
Aft B	<u>CGCTCH 74-2</u>	<u>90</u>		<u>PQWL</u>	<u>930</u>	<u>960</u>			<u>30</u>	<u>30</u>		
Nite C	<u>CGCTCH 74-2</u>	<u>90</u>		<u>PQWL</u>	<u>960</u>	<u>963</u>			<u>3</u>	<u>3</u>		

Hourly Distribution	Day	Aft.	Nite
Core Drilling	<u>8</u>	<u>8</u>	<u>2</u>
Handling Rod (change bit)			<u>2</u>
Overburden - rock bit			
Collaring Hole - Dia. bit			
Rotary Drilling			
Handling Rod (bit)			
Rock Bit - Overburden			
Reaming (to)			
Casing - Placing			
- Pulling			
Delays - Client Acct.			
Cementing - Handling Rods			
- Prep Hole & Grout			
- Setting			
- Drilling			
Moving - Hole to Hole			
Rigging Up - Rigging Down			
Mix Mud			
Condition Hole, Lost Circulation			
Surveying, Inclination Test			
Mobilization/Demobilization			
Other (Explain)			
<u>Drilling Cave</u>			<u>(4)</u>
Total Hours	<u>8</u>	<u>8</u>	<u>2</u>
Driller's Initials	<u>RL</u>	<u>RL</u>	<u>RL</u>

Supplies Consumed			
Description	Size	Product Name	Number of Units
Portland Lumnite			
Calseal			
Mud	50#	<u>Nova</u>	<u>8</u>
Mud	100#		<u>9</u>
Other (Describe)			
<u>Soda Ash</u>			<u>1</u>
<u>C.M.C.</u>			<u>1</u>
<u>POLYCORE 1</u>			
OTHER			
Water hauling	<u>126</u> miles	<u>7</u> loads	
Core boxes:	size/	no.	
Length of waterline:			
Lost tools: Description			
Lost bits: Size	Serial no.		
Depth:	ft. Hole #		
Casing lost or left in hole: Size	ft.		
for Client	Hole #		
Longco	Hole #		
Bit changes: Size	Serial #	Depth	
(Include first bit in hole)	<u>PQ</u>	<u>155253</u>	<u>962</u>

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>K.R. Hall</u>	<u>8</u>	<u>L. Berry</u>	<u>8</u>	<u>D. Altman</u>	<u>8</u>
B	<u>R. Lovejoy</u>	<u>8</u>	<u>D. Ferguson</u>	<u>8</u>	<u>W. Shelman</u>	<u>8</u>
C	<u>C. Anderson</u>	<u>8</u>	<u>W. Bigler</u>	<u>8</u>	<u>L. Jenkins</u>	<u>8</u>

Remarks: HIT CAVE 160 FEET FROM BOTTOM - DRILLED TO 910' - HAD TO PULL CORE AT 910' - 2 SHIFTS WATER Hauler
D.P. Bishop
 NOTE: If item is chargeable to client, place circle around time entry. Please follow instructions on reverse side.
 cnc OFFICE SUPPLY DIST., INC.—MINNEAPOLIS, MINN. 55402 CLIENT

LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: CHINIA LAKE Date: 8 20 19 83 Drill HP 500 / 13354/13356
Location: Caso, CALIFORNIA Foreman's Signature: Bary W. Ferguson

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Re-covered	Size	Footage
Day A	CGC TCH 74-2	90		PQWL	813	828			15	15		
Aft B	CGC TCH 74-2	90		PQWL	828	872			44	44		
Nite C	CGC TCH 74-2	90		PQWL	872	899			27	27		

Hourly Distribution				Supplies Consumed			
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Day Aft. Nite
Handling Rod (change bit)	8	8	8	Portland			
Overburden - rock bit				Lumnite			
Collaring Hole - Dia. bit				Calseal			
Rotary Drilling				Mud	50#	NOVA	4 9 13
Handling Rod (bit)				Mud	100#		
Rock Bit - Overburden				Other (Describe)			
Reaming (to)				CASE 50ft			1
Casing - Placing				Mud Seal 4ft			1
- Pulling				Poly Case 1 Sp. 1			1
Delays - Client Acct.							
Cementing - Handling Rods							
- Prep Hole & Grout							
- Setting							
- Drilling							
Moving - Hole to Hole							
Rigging Up - Rigging Down							
Mix Mud							
Condition Hole, Lost Circulation							
Surveying, Inclination Test							
Mobilization/Demobilization							
Other (Explain)							
Total Hours	8	8	8				
Driller's Initials	YAL	RJ	CA				

OTHER

Water hauling 180 miles 10 loads

Core boxes: size/ no.

Length of waterline:

Lost tools: Description

Lost bits: Size Serial no.

Depth: ft. Hole #

Casing lost or left in hole: Size ft.

for Client Hole #

Longco Hole #

Bit changes: Size Serial # Depth

(Include first bit in hole)

RECEIVED

SEP 1 - 1983

C.E.C.I.

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	K.R. Hall	8	L. Berry	8	D. Hittman	8
B	R. Lovjoy	8	D. Ferguson	8	W. Shellman	8
C	C. Anderson	8	W. Bigler	8	Lester Jinkens	8

Remarks: Days: Check BOP and Kill line 1:30 PM

3 Shifts Water Hauling

B.P. Bishop

LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Chim Lake Date: 8 19 80 Drill HD 500 1 3354/3351
MONTH DAY TYPE DRILL NO. TRUCK NO.
Location C-2, California Foreman's Signature: Doug W. Ferguson

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Recovered	Size	Footage
					From	To	From	To				
Day A	CGC TCH 74-2	90		PQWL	719	734			20	20		
Aft B	CGC TCH 90 74-2			PQWL	738	772			34	34		
Nite C	CGC TCH 90 74-2			PQWL	772	813			41	40		
Hourly Distribution			Day	Aft.	Nite	Supplies Consumed						
Core Drilling			6	8	8	Description	Size	Product Name	Day	Aft.	Nite	Number of Units
Handling Rod (change bit)			2			Portland						
Overburden - rock bit						Lumnite						
Collaring Hole - Dia. bit						Calseal						
Rotary Drilling						Mud	50#	NOLA	3			
Handling Rod (bit)						Mud	100#					
Rock Bit - Overburden						Other (Describe)						
Reaming (to)						Poly Core L Sgrt			2	1	2	
Casing - Placing												
- Pulling												
Delays - Client Acct.												
Cementing - Handling Rods												
- Prep Hole & Grout												
- Setting												
- Drilling												
Moving - Hole to Hole												
Rigging Up - Rigging Down												
Mix Mud												
Condition Hole, Lost Circulation												
Surveying, Inclination Test												
Mobilization/Demobilization												
Other (Explain)												
Total Hours			8	8	8							
Driller's Initials			PH	RL	CA							
Shift	DRILLERS		Hrs.	HELPERS		Hrs.	TRUCK DRIVERS		Hrs.			
A	K.R. Hall		8	L. Berni		8	D. A. HALL		8			
B	R. Lovejoy		8	D. Ferguson		8	W. S. HALL		8			
C	C. Anderson		8	W. Bigler		8	J. C. JENKINS		8			
Remarks: <u>1 Load Water (Days)</u> <u>3 Load WATER NET</u>												
<u>3 Shift Water Hauling</u>												

NOTE: If item is chargeable to client, place circle around time entry. Please follow instructions on reverse side.

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: CHINA LAKE Date: 8 19 83 Drill HD 5001 33541 3356
 Location: CSO, California Foreman's Signature: Barry W. Ferguson

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Recovered	Size	Footage
					From	To	From	To				
Day A	CGC TH 74-3	90		PQWL	662	672			10	10		
Aft B	CGC TH 74-2	90		PQWL	672	688			16	16		
Nite C	CGC TH 74-3	90		PQ	688	718			30	30		

Hourly Distribution				Supplies Consumed			
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Number of Units
Handling Rod (change bit)	2			Portland			
Overburden - rock bit				Lumnite			
Collaring Hole - Dia. bit				Calseal			
Rotary Drilling				Mud	50#	ALUMA	3
Handling Rod (bit)				Mud	100#		6
Rock Bit - Overburden				Other (Describe)			
Reaming (to)				Poly core L 591			1
Casing - Placing							
- Pulling							
Delays - Client Acct.							
Cementing - Handling Rods							
- Prep Hole & Grout							
- Setting							
- Drilling							
Moving - Hole to Hole							
Rigging Up - Rigging Down							
Mix Mud							
Condition Hole, Lost Circulation							
Surveying, Inclination Test							
Mobilization/Demobilization							
Other (Explain)							
Total Hours	8	8	8				
Driller's Initials	SKL	RB	CA				

OTHER

Water hauling 176 miles 7 loads

Core boxes: 176 size/ no.

Length of waterline:

Lost tools: Description

Lost bits: Size Serial no. **RECEIVED**

Depth: ft. Hole #

Casing lost or left in hole: Size ft. SEP 1 - 1983

for Client Hole #

Longco Hole # **C.E.C.I.**

Bit changes: Size Serial # Depth

(Include first bit in hole) PQ 156251-672

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	KIR Hall	8	L Barry	8	D ALTMAN	8
B	R Loveloy	8	D. Ferguson	8	W. SHELLMAN	8
C	C Anderson	8	W Bigler		Fred H. Bousquet	

Remarks: 3 Shifts Water hauler.

B.P. Bishop

NOTE: If item is chargeable to client, place circle around time entry. Please follow instructions on reverse side.

LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: China Lake Date: 9 11 1953 Drill HD 500 1.3354 1.3356
MONTH DAY TYPE DRILL NO. TRUCK NO.
Location: CASO, California Foreman's Signature: Ray W. Ferguson

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Re-covered	Size	Footage
Day A	<u>CGC-TEH 90°</u> <u>74-2</u>			<u>PQWL</u>	<u>484</u>	<u>510</u>			<u>26</u>	<u>26</u>		
Aft B	<u>CGC-TEH 90°</u> <u>74-2</u>			<u>PQWL</u>	<u>510</u>	<u>541</u>			<u>31</u>	<u>31</u>		
Nite C	<u>CGC-TEH 90°</u> <u>74-2</u>			<u>PQ</u>	<u>541</u>	<u>565</u>			<u>24</u>	<u>24</u>		

Hourly Distribution			
Core Drilling	Day	Aft.	Nite
Handling Rod (change bit)	<u>7</u>	<u>8</u>	<u>7</u>
Overburden - rock bit			<u>1</u>
Collaring Hole - Dia. bit			
Rotary Drilling			
Handling Rod (bit)			
Rock Bit - Overburden			
Reaming (to)			
Casing - Placing			
- Pulling			
Delays - Client Acct.			
Cementing - Handling Rods			
- Prep Hole & Grout			
- Setting			
- Drilling			
Moving - Hole to Hole			
Rigging Up - Rigging Down			
Mix Mud			
Condition Hole, Lost Circulation	<u>(1)</u>		
Surveying, Inclination Test			
Mobilization/Demobilization			
Other (Explain)			
Total Hours	<u>8</u>	<u>8</u>	<u>8</u>
Driller's Initials	<u>RH</u>	<u>RL</u>	<u>CJA</u>

Supplies Consumed			
Description	Size	Product Name	Number of Units
Portland			
Lumnite			
Calseal			
Mud	<u>50#</u>	<u>NOVA</u>	<u>2</u>
Mud	<u>100#</u>		<u>4</u>
Other (Describe)			<u>6</u>
<u>Polymer core L 5</u>			<u>1</u>
			<u>1</u>
			<u>1</u>
OTHER			
Water hauling	<u>162</u> miles	<u>9</u> loads	
Core boxes:	size/	no.	
Length of waterline:			
Lost tools: Description			
Lost bits: Size		Serial no.	
Depth:		ft. Hole #	
Casing lost or left in hole: Size		ft.	
for Client		Hole #	
Longco		Hole #	
Bit changes:	Size	Serial #	Depth
(Include first bit in hole)	<u>PQ</u>	<u>124214</u>	<u>560</u>

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>R.R. Hall</u>	<u>8</u>	<u>L. Barry</u>	<u>8</u>	<u>D. AITMAN</u>	<u>8</u>
B	<u>R. Loveloy</u>	<u>8</u>	<u>D. FREEDMAN</u>	<u>8</u>	<u>W. SHILLMAN</u>	<u>8</u>
C	<u>C. Anderson</u>	<u>8</u>	<u>W. Bigler</u>	<u>8</u>	<u>Fred H. Bousquet</u>	<u>8</u>

Remarks: 1 hr. Day work lost piece.
3 shifts water truck driver.

FILE: Payroll Office
Drilling Reports

Longyear

FOREMAN'S REPORT OF EMPLOYEE INJURY

NAME OF INJURED Clifford Helm

HOME ADDRESS RENO Nevada
Street City State Zip

DATE OF BIRTH _____ SEX M MARRIED _____ SINGLE X

SOCIAL SECURITY NO. 970-86-2835 NO. OF DEPENDENTS _____

JOB TITLE Helper RATE OF PAY 7.25 LENGTH OF EMPLOYMENT 1 year

PHYSICIAN'S NAME John Longoria M.D.

PHYSICIAN'S ADDRESS Bishop Cal
City State Zip

TYPE OF TREATMENT ADMINISTERED Treatment not complete

DATE OF INJURY 8-14-83 TIME _____ A.M. 2:30 P.M.

CONTRACT China Lake NEAREST TOWN Longview STATE Cal

HOW DID ACCIDENT HAPPEN AND WHAT WAS EMPLOYEE DOING? Re spooling cable on drum & left hand got caught in cable

NATURE OF INJURY Damage to Left Thumb TYPE OF FIRST AID _____

HAS EMPLOYEE RETURNED TO WORK? NO DATE OF RETURN _____

IF EMPLOYEE HAS NOT RETURNED TO WORK, ESTIMATE DATE OF RETURN 6 weeks

(FOR MEDICAL ATTENTION INJURIES ONLY)

FOREMAN'S SIGNATURE Longyear

DATE 8-15-83

EASTERN
NEW ENGLAND
CENTRAL
SOUTHWESTERN
ROCKY MOUNTAIN
NEVADA WESTERN
NORTHWESTERN
ROTARY
UNDERGROUND & SPEC. PROJ.

ROUTING

WHITE - Longyear Company
925 Delaware Street S.E.
Minneapolis, Minnesota 55414

YELLOW - ZONE OFFICE
PINK - JOB FOREMAN
GOLD - PHYSICIAN

LONGYEAR COMPANY
Contracting Division
General Office
Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: China Lake Date: 8 15 19 83 Drill HD 5001 3254 3354
Location: Casa, California Foreman's Signature: [Signature]

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Recovered	Size	Footage
					From	To	From	To				
Day A	CGC TCH 90 74-2			PRWL 461.5	464				2.5	2.5		
Aft B	CGC TCH 90 742			PRWL 464	471				7	7		
Nite C	CGC TCH 90 74-2			PR 471	484				13	12		

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	7	7	18	Portland					
Handling Rod (change bit)	1	1		Lumnite					
Overburden - rock bit				Calseal					
Collaring Hole - Dia. bit				Mud	50#		2	3	
Rotary Drilling				Mud	100#	Nova			
Handling Rod (bit)				Other (Describe)					
Rock Bit - Overburden				Poly Tube Sgl			1	1	
Reaming (to)				Poly Core Sgl					
Casing - Placing				Bentonite		#50			3
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods									
- Prep Hole & Grout									
- Setting									
- Drilling									
Moving - Hole to Hole									
Rigging Up - Rigging Down									
Mix Mud									
Condition Hole, Lost Circulation									
Surveying, Inclination Test									
Mobilization/Demobilization									
Other (Explain)									

Water hauling 72 miles 4 loads
Core boxes: 72 size/ 4 no.
Length of waterline: _____
Lost tools: Description _____

Lost bits: Size _____ Serial no. _____
Depth: _____ ft. Hole # _____
Casing lost or left in hole: Size _____ ft. _____
for Client _____ Hole # _____
Longco _____ Hole # _____
Bit changes: Size _____ Serial # _____ Depth _____
(Include first bit in hole) PRWL 461.5
PRWL 471
PRWL 484

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	KR Hall	8	D. RITMAN	8		
B	R. L. L. L.	8	D. RITMAN	8	W. SHILLMAN	8
C	G. Anderson	8	W. Bigler	8	FRANK H. BOUSQUET	8

Remarks: PULLED RODS FOR SAND IN TUBE RO.
Only Blind - No Mud Returns.
2 Shifts WATER Hauling

NOTE: If item is chargeable to client, place circle around time entry. Please follow instructions on reverse side.

LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: China Lake Date: 7 14 19 63 Drill HD500 132541 3306
MONTH DAY TYPE DRILL NO. TRUCK NO.
Location: Caso Foreman's Signature: Darryl W. Ferguson

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Recovered	Size	Footage
					From	To	From	To				
Day A	66-TCH 90 74-2			PPWL	394	400			26	26		
Aft B	66-TCH 90 74-2			420 420	442				22 22	21		
Nite C	66-TCH 90 74-2			442	461.5				19.5	19		

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	7	7	6	Portland					
Handling Rod (change bit)		1	1	Lumnite					
Overburden - rock bit				Calseal					
Collaring Hole - Dia. bit				Mud	50#	NOVA	3	4	
Rotary Drilling				Mud	100#				
Handling Rod (bit)				Other (Describe)					
Rock Bit - Overburden				Red Seal 50#			1		
Reaming (to)				Poly Seal				1	2
Casing - Placing				Bentinite					
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods				OTHER					
- Prep Hole & Grout				Water hauling	140	miles	9	loads	
- Setting				Core boxes:		size/		no.	
- Drilling				Length of waterline:					
Moving - Hole to Hole				Lost tools: Description					
Rigging Up - Rigging Down									
Mix Mud									
Condition Hole, Lost Circulation				Lost bits: Size		Serial no.			
Surveying, Inclination Test				Depth:		ft. Hole #			
Mobilization/Demobilization				Casing lost or left in hole: Size		ft.			
Other (Explain)				for Client		Hole #			
				Longco		Hole #			
				Bit changes: Size		Serial #		Depth	
				(Include first bit in hole)					
Total Hours	7	7	8						
Driller's Initials	9/4	RR	GR						

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	R. R. Hall	4	CHIFF HELM	8	D. HITMAN	8
B	R. Leach	8	D. FERGUSON	8	W. SHILLMAN	8
C	C. Anderson	8	W. Bigler	8	Fred H. Cousquet	8

Remarks: Pulled Rod's Puller CH RR

NOTE: If item is chargeable to client, place circle around time entry. Please follow instructions on reverse side.

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Cal Date: Aug-13 1983 Drill Rotary /
 Location: Cox Col Foreman's Signature: [Signature]
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Re-covered	Size	Footage
Day A	<u>1014</u> <u>18-27</u>											
Aft B												
Nite C												

Hourly Distribution		Day	Aft.	Nite	Supplies Consumed			
					Description	Size	Product Name	Number of Units
Core Drilling					Portland			
Handling Rod (change bit)					Lumnite			
Overburden - rock bit					Calseal			
Collaring Hole - Dia. bit					Mud	50#		
Rotary Drilling					Mud	100#		
Handling Rod (bit)					Other (Describe)			
Rock Bit - Overburden								
Reaming (to)								
Casing - Placing								
- Pulling								
Delays - Client Acct.								
Cementing - Handling Rods								
- Prep Hole & Grout								
- Setting								
- Drilling								
Moving - Hole to Hole								
Rigging Up - Rigging Down								
Mix Mud								
Condition Hole, Lost Circulation								
Surveying, Inclination Test								
Mobilization/Demobilization								
Other (Explain)								
<u>Hyd equipment off</u>								
<u>Attnk ground first</u>								
<u>location = CGC TCH 74-2</u>								
Total Hours								
Driller's Initials								

OTHER
 Water hauling 54 miles 3 loads
 Core boxes: size/ no.
 Length of waterline:
 Lost tools: Description
 Lost bits: Size _____ Serial no. _____
 Depth: _____ ft. Hole # _____
 Casing lost or left in hole: Size _____ ft.
 for Client _____ Hole # _____
 Longco _____ Hole # _____
 Bit changes: Size Serial # Depth
 (Include first bit in hole)

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>D Altman</u>	<u>10</u>	<u>T Kurkham</u>	<u>8</u>	<u>W Shellman</u>	<u>10</u>
B						
C						

Remarks:
1st Shift Water Hauler.
Final Report - Rotary Rig

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Chum Lake Date: 8 13 1982 Drill HD 5011 3.354 3201
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Camp, Chum Lake Foreman's Signature: Ray W. Ferguson

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Recovered	Size	Footage
					From	To	From	To				
Day A	<u>66L TCH 90°</u> <u>74-2</u>			<u>PQWL</u>	<u>322</u>	<u>355</u>			<u>33</u>	<u>33</u>		
Aft B	<u>66L TCH 90°</u> <u>18-1</u> <u>74-1</u>			<u>PQ</u>	<u>355</u>		<u>394</u>		<u>39</u>	<u>39</u>		
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	9	10		Portland			Number of Units		
Handling Rod (change bit)		1		Lumnite					
Overburden - rock bit				Calseal					
Collaring Hole - Dia. bit				Mud	50#	110#	7		
Rotary Drilling				Mud	100#				
Handling Rod (bit)				Other (Describe)					
Rock Bit - Overburden				Poly Case L Seal			1	2	
Reaming (to)				Poly Seal 40#					
Casing - Placing				Bentonite				9	
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods				Water hauling	126	OTHER			
- Prep Hole & Grout				Core boxes:		miles	7	loads	187
- Setting				Length of waterline:		size/		no.	
- Drilling				Lost tools: Description					
Moving - Hole to Hole									
Rigging Up - Rigging Down				Lost bits: Size		Serial no.			
Mix Mud				Depth:		ft. Hole #			
Condition Hole, Lost Circulation	3	1		Casing lost or left in hole: Size		ft.			
Surveying, Inclination Test				for Client		Hole #			
Mobilization/Demobilization				Longco		Hole #			
Other (Explain)				Bit changes:	Size	Serial #	Depth		
				(Include	PQ	L24826	on	HT 355	
				first bit					
				in hole)					
Total Hours	12	12							
Driller's Initials	HJL	CH							

OTHER ☒
 Water hauling (126) miles 7 loads 187
 Core boxes: size/ no.
 Length of waterline:
 Lost tools: Description
 Lost bits: Size Serial no.
 Depth: ft. Hole #
 Casing lost or left in hole: Size ft.
 for Client Hole #
 Longco Hole #
 Bit changes: Size Serial # Depth
 (Include first bit in hole) PQ 124826 on H 355

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>KR Hall</u>	<u>12</u>	<u>B Langley</u>	<u>12</u>	<u>Fred H Bousquet</u>	<u>12</u>
B	<u>C Anderson</u>	<u>12</u>	<u>W Bigler</u>	<u>12</u>		
C						

Remarks:
4 PCS lost Circ. Drilling
112 Shifts water hauling

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: China Lake

Date: 8-12 1943 Drill HD 500 133541 3356
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Loso Cal

Foreman's Signature: [Signature]

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Recovered	Size	Footage
					From	To	From	To				
Day A	<u>CGC-KH 90°</u> <u>14-27</u> <u>77-2</u>											
Aft B	<u>CGC-TCH 90°</u> <u>18-27</u> <u>71-2</u>				<u>306</u>	<u>322</u>			<u>16</u>	<u>16</u>		
Nite C												

Hourly Distribution	Day	Aft.	Nite	Supplies Consumed						
Core Drilling				Description	Size	Product Name	Day	Aft.	Nite	
							Number of Units			
Handling Rod (change bit)				Portland						
Overburden - rock bit				Lumnite						
Collaring Hole - Dia. bit				Calseal						
Rotary Drilling				Mud	50#					
Handling Rod (bit)				Mud	100#					
				Other (Describe)						

OTHER

Water hauling 106 miles 6 loads

Core boxes: size/ no.

Length of waterline:

Lost tools: Description

Lost bits: Size Serial no.

Depth: ft. Hole #

Casing lost or left in hole: Size ft.

for Client Hole #

Longco Hole #

Bit changes: Size Serial # Depth

(Include first bit in hole) PR 0805348 Shell

PR 653736 Bit

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>KR Hall</u>	<u>12</u>	<u>B Lovejoy</u>	<u>12</u>		
B	<u>Anderson</u>	<u>12</u>	<u>W Bigler</u>	<u>12</u>	<u>Fred H. Bousquet</u>	<u>12</u>
C						

Remarks: TEST BOP TO 500# - OK. Hal Stamps, Plan 044.

Spruce Splinters in Poly Core Squeeze caused stuck Tubes. CH

NOTE: If item is chargeable to client, place circle around time entry. Please follow instructions on reverse side.

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: *Chinier Lake*

Date: *Aug 12* 19 *83* Drill *Rotary*

Location: *Coxo Col*

Foreman's Signature: *[Signature]*

DRILL NO. TRUCK NO.

Shift	Hole No.	Angle	Material Drilled	Bit Size & Type	Footage Summary				Feet		Total Casing in Hole	
					Drilling		Reaming		Drilled or Reamed	Core Recovered	Size	Footage
					From	To	From	To				
Day A	<i>55-TH 18-27</i>			<i>7 3/4</i>	<i>286</i>	<i>306</i>			<i>20</i>			
Aft B												
Nite C												

Hourly Distribution	Day	Aft.	Nite	Supplies Consumed					
Core Drilling				Description	Size	Product Name	Day	Aft.	Nite
Handling Rod (change bit)				Portland			Number of Units		
Overburden - rock bit				Lumnite					
Collaring Hole - Dia. bit				Calseal					
Rotary Drilling	2			Mud	50#				
Handling Rod (bit)				Mud	100#				
Rock Bit - Overburden				Other (Describe)		Brath	3		
Reaming (to)	2								
Casing - Placing									
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods	2								
- Prep Hole & Grout				Water hauling	56	OTHER miles 2			
- Setting				Core boxes:		size/			
- Drilling				Length of waterline:					
Moving - Hole to Hole				Lost tools: Description					
Rigging Up - Rigging Down	1								
Mix Mud									
Condition Hole, Lost Circulation				Lost bits: Size		Serial no.			
Surveying, Inclination Test				Depth:		ft. Hole #			
Mobilization/Demobilization	1			Casing lost or left in hole: Size		ft.			
Other (Explain)				for Client		Hole #			
condition hole for casing	3			Longco		Hole #			
				Bit changes:	Size	Serial #	Depth		
				(Include					
				first bit					
				in hole)					
Total Hours									
Driller's Initials									