

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: *Cham Lake*

Date: *Aug 11* 19 *83* Drill *Rotary*

Location: *Los Angeles*

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
Day A	<i>1V-27</i>			<i>7 3/4</i>	<i>192</i>	<i>286</i>			<i>92</i>			
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed			
	Day	Aft.	Nite	Description	Size	Product Name	Number of Units
Core Drilling				Portland			
Handling Rod (change bit)				Lumnite			
Overburden - rock bit				Calseal			
Collaring Hole - Dia. bit				Mud	<i>50#</i>	<i>135 units</i>	<i>3</i>
Rotary Drilling	<i>10</i>			Mud	<i>100#</i>		
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)							
Total Hours	<i>10</i>						
Driller's Initials	<i>DA</i>						

OTHER			
Water hauling	miles	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	<i>Don Altman</i>	<i>10</i>	<i>W. Skellern</i>	<i>10</i>	<i>R. Loojy</i>	<i>10</i>
B						
C						

Remarks: *12V Shifts Water Hauler*

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 11 1952 Drill HDS-1 13354 13356
Location: California Foreman's Signature: [Signature] 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 Recovered	Size	Footage
					From	To	From	To				
Day A												
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#	<u>Benite</u>	<u>2</u>
Rotary Drilling					Mud	100#		
Handling Rod (bit)					Other (Describe)		<u>5 gal.</u>	<u>1</u>
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)								
Total Hours								
Driller's Initials								

OTHER			
Water hauling	miles		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>KK Hall</u>	<u>9</u>	<u>C. Anderson</u>	<u>9</u>	<u>W. Dyer</u>	<u>9</u>
B						
C						

Remarks: Drill Core from 2845 to 2745
4 hrs Day Work
1 1/2 Shift Water Hauling

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Chino Lake

Date: Aug 10 1983 Drill Rotary
MONTH DAY TYPE

Location: Coso Cal

Foreman's Signature: Doug M. Ferguson DRILL NO. 1 TRUCK NO. 1

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	18-27			7 1/2	133	192						
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
							Number of Units		
Core Drilling				Portland					
Handling Rod (change bit)				Lumnite					
Overburden - rock bit				Calseal					
Collaring Hole - Dia. bit				Mud	50#	Bedrock	4		
Rotary Drilling	7			Mud	100#				
Handling Rod (bit)				Other (Describe)		Drill Bit	1		
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)									
had to leave sit for test	3								
Total Hours	10								
Driller's Initials	DA								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	D. H. H. H.	10	W. S. H. H. H.	10	R. J. H. H.	10
B						
C						

Remarks:

3 hrs. Day Work.

12 hr. Shifts Overtime Hours.

Doug M. Ferguson

Minneapolis, Minnesota 55414

Contract: China Lake Date: 8 10 1983 Drill H12500 13354 13356
MONTH DAY TYPE DRILL NO. TRUCK NO.
Location: Cal. FOR 111A Foreman's Signature: [Signature]

[illegible][illegible]

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	R. R. Hall	9	O. Anderson	9	W. Bigler	9
B						
C						

Remarks:

the shift water heater.

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

CLIENT

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: *China Ltr*

Date: *Aug 9* 19 *83* Drill *Rotary* TYPE *1*

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 Re-covered	Size	Footage
Day A	<i>18-27</i>	<i>90°</i>		<i>7 1/2</i>	<i>26</i>	<i>133</i>			<i>107</i>			
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed			
	Day	Aft.	Nite	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#	<i>Beal's</i>	<i>9</i>
Rotary Drilling	<i>10</i>			Mud	100#		
Handling Rod (bit)				Other (Describe)		<i>Drill bit agent 5 gal</i>	<i>1</i>
						<i>Polly L 5 gal</i>	
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)							
Total Hours	<i>10</i>						
Driller's Initials	<i>DA</i>						

OTHER

Water hauling *112* miles *4* 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	<i>D Altman</i>	<i>10</i>				
B			<i>NU Sheffman</i>	<i>10</i>	<i>R Lovejoy</i>	<i>10</i>
C						

Remarks: *Rock is hard*

14x Shift Water Hauling

LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: CHINA LAKE Date: 8 9 19 73 Drill HD 500 133.50 / 133.51
Location: Chil. For. 1117 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 Recovered	Size	Footage
					From	To	From	To				
Day A												
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
							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				OTHER						
- Prep Hole & Grout				Water hauling		miles		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										
Driller's Initials										

OTHER

Water hauling _____ miles _____ 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>KEN HALL</u>	<u>8</u>				
B						
C						

Remarks: Well head Road Truck Getting Ready To Set Rig up

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

18-27

"DAILY DRILL REPORT"

Contract: Chico Lats Date: Aug 8 19 83 Drill Rotary TYPE 1 DRILL NO. 1 TRUCK NO. 1
Location: col. CO50 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 Re-covered	Size	Footage
Day A	<u>CB-104</u> <u>18-27</u>			<u>9 3/8</u> <u>7 3/8</u>	<u>0</u> <u>18</u>	<u>18</u> <u>26</u>						
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed			
Core Drilling	Day	Aft.	Nite	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	<u>43</u>			Mud	50#	<u>Reddy</u>	<u>8</u>
Handling Rod (bit)				Mud	100#		
Rock Bit - Overburden				Other (Describe)			
Reaming (to)	<u>11</u>						
Casing - Placing							
- Pulling							
Delays - Client Acct.							
Cementing - Handling Rods							
- Prep Hole & Grout							
- Setting							
- Drilling							
Moving - Hole to Hole							
Rigging Up - Rigging Down	<u>540</u>						
Mix Mud							
Condition Hole, Lost Circulation							
Surveying, Inclination Test							
Mobilization/Demobilization							
Other (Explain)							
Total Hours							
Driller's Initials							

OTHER
Water hauling 1818 miles 12.7 loads
Core boxes: 1818 size/ 12.7 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>10 Altman</u>	<u>10</u>	<u>20 Shellman</u>	<u>10</u>	<u>10 Jorgensen</u>	<u>10</u>
B						
C						

Remarks: Said 130 Aug 8 93
Hole measurements are ground level
1 hr. Day work
13 hr shift water hauler

LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Chad Lake Date: 8 7 19 83 Drill HP 800 / 13354 / 2256
Location: 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												
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed			
Core Drilling	Day	Aft.	Nite	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				Mud	50#		
Handling Rod (bit)				Mud	100#		
Rock Bit - Overburden				Other (Describe)			
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)							
Total Hours							
Driller's Initials							

OTHER

Water hauling _____ miles _____ 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>KIR HAN</u>	<u>8</u>				
B						
C						

Remarks: Driller took to job

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

Minneapolis, Minnesota 55414

Foreman's Signature: [Signature]

CLIENT

"DAILY DRILL REPORT"

Contract: King John Date: Aug 6 1983 Drill Rock / /
MONTH DAY TYPE DRILL NO. TRUCK NO.
Location: Chico Foreman's Signature: Dan W. Ferguson

[illegible]

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	12			Mud	50#	Brill	3
Handling Rod (bit)				Mud	100#		
Rock Bit - Overburden				Other (Describe)			
Reaming (to)				ply L	5 gal		1
Casing — Placing							
— Pulling							
Delays - Client Acct.							
Cementing - Handling Rods							
- Prep Hole & Grout				Water hauling	54 miles	3 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	12						
Driller's Initials	DA						

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	10 Altman	12	W Sherman	12	Fred H Bousquet	12
B						
C						

Remarks:

142 Shift Water Number.

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: Chico Lake

Date: Aug 5 19 53 Drill Rotary /

Location: CD POSC

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 Re-covered	Size	Footage
Day	<u>(61-TM)</u>	<u>90</u>		<u>93</u>	<u>0</u>	<u>18</u>						
Aft	<u>74-2</u>	<u>90</u>		<u>73</u>	<u>18</u>	<u>164</u>						
Nite												

Hourly Distribution				Supplies Consumed			
Core Drilling	Day	Aft.	Nite	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	<u>8</u>			Mud	50#	<u>Portland</u>	<u>20</u>
Handling Rod (bit)				Mud	100#		
Rock Bit - Overburden				Other (Describe)			
Reaming (to)						<u>Santa Ana</u>	<u>1</u>
Casing - Placing						<u>CMC</u>	<u>1</u>
- Pulling							
Delays - Client Acct.							
Cementing - Handling Rods							
- Prep Hole & Grout							
- Setting							
- Drilling							
Moving - Hole to Hole							
Rigging Up - Rigging Down	<u>3</u>						
Mix Mud							
Condition Hole, Lost Circulation							
Surveying, Inclination Test							
Mobilization/Demobilization							
Other (Explain)							
Total Hours	<u>11</u>						
Driller's Initials	<u>DA</u>						

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>AKTman</u>	<u>11</u>	<u>Shannon</u>	<u>11</u>		
B						
C						

Remarks: Spud 11 AM Aug 5 1953
Hole measurement is ground level

CLIENT

LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: CHINA LAKE Date: 7 17 19 83 Drill HD-500 13354 / 13356
Location: C-50, Calif. Forcite 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 Re-covered	Size	Footage
Day A	<u>66-TEH</u> <u>74-2</u>	<u>90</u>		<u>PQWL</u>	<u>565</u>	<u>603</u>			<u>38</u>	<u>38</u>		
Aft B	<u>66-TEH</u> <u>74-2</u>	<u>90</u>		<u>PQWL</u>	<u>603</u>	<u>638</u>			<u>35</u>	<u>35</u>		
Nite C	<u>66-TEH</u> <u>74-2</u>	<u>90</u>		<u>PQ</u>	<u>638</u>	<u>662</u>			<u>24</u>	<u>24</u>		

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	8	8	8				Number of Units		
Handling Rod (change bit)				Portland					
Overburden - rock bit				Lumnite					
Collaring Hole - Dia. bit				Calseal					
Rotary Drilling				Mud	50#	NOVA	5	4	4
Handling Rod (bit)				Mud	100#				
Rock Bit - Overburden				Other (Describe)					
Reaming (to)				Poly core & Seal			1	1	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)									

OTHER
Water hauling: 136 miles 7 loads
Core boxes: 7 size/ 7 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	<u>K. B. Hall</u>	<u>8</u>	<u>L. Berry</u>	<u>8</u>	<u>D. FITZMAN</u>	<u>8</u>
B	<u>P. LOVJOY</u>	<u>8</u>	<u>D. Ferguson</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>

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

CLIENT