

Minneapolis, Minnesota 55414





# MEDICAL TREATMENT AUTHORIZATION

NAME OF INJURED \_\_\_\_\_

HOME ADDRESS \_\_\_\_\_

DATE OF BIRTH \_\_\_\_\_ SEX \_\_\_\_\_ MARRIED \_\_\_\_\_ SINGLE \_\_\_\_\_

SOCIAL SECURITY/LONGYEAR EMP. NO. \_\_\_\_\_

JOB TITLE \_\_\_\_\_ RATE OF PAY \_\_\_\_\_

PHYSICIAN'S NAME \_\_\_\_\_

PHYSICIAN'S ADDRESS \_\_\_\_\_

DATE OF INJURY \_\_\_\_\_ TIME \_\_\_\_\_

CONTRACT/LOCATION \_\_\_\_\_

HOW DID ACCIDENT HAPPEN? \_\_\_\_\_

NATURE OF INJURY \_\_\_\_\_

FIRST AID TREATMENT \_\_\_\_\_

TIME LOST FROM WORK BY EMPLOYEE \_\_\_\_\_

This form is authorization to render medical treatment to the above named employee for the above described injury.

(FOR MEDICAL ATTENTION INJURIES ONLY)

FOREMAN'S SIGNATURE \_\_\_\_\_

DATE \_\_\_\_\_

## 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: 9 14 19 83 Drill HD 5001 3254 13356  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: COSO 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
					From	To	From	To				
Day A	<u>CGCTCH 74-2</u>	<u>90</u>		<u>HQWL</u>	<u>2417</u>	<u>2419</u>			<u>2</u>	<u>0</u>		
Aft B												
Nite C	<u>CGCTCH 74-2</u>	<u>90</u>		<u>HQWL</u>	<u>2419</u>	<u>2441</u>			<u>22</u>	<u>22</u>		

Hourly Distribution				Supplies Consumed			
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Day Aft. Nite
Handling Rod (change bit)	<u>9</u>		<u>9</u>	Portland			
Overburden - rock bit				Lumnite			
Collaring Hole - Dia. bit				Calseal			
Rotary Drilling				Mud	50#	<u>NOVA</u>	<u>4</u> <u>5</u> <u>3</u>
Handling Rod (bit)				Mud	100#		
Rock Bit - Overburden				Other (Describe)			
Reaming ( to )							
Casing - Placing							
- Pulling							
Delays - Client Acct.							
Cementing - Handling Rods							
- Prep Hole & Grout				Water hauling	<u>54</u> miles	<u>3</u> 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 #	
<u>TEST TEST</u>	<u>1</u>		<u>3</u>	Longco		Hole #	
<u>DRILLING CASE</u>	<u>1</u>	<u>2</u>	<u>3</u>	Bit changes:	Size	Serial #	Depth
				(Include	<u>HQWL 157786</u>	<u>2419</u>	
				first bit	<u>HQWL 156582</u>	<u>2419</u>	
				in hole)			
Total Hours	<u>12</u>		<u>12</u>				
Driller's Initials	<u>RF</u>		<u>Ca</u>				

Shift	DRILLERS		Hrs.	HELPERS		Hrs.	TRUCK DRIVERS		Hrs.
A	<u>R</u>	<u>Lovely</u>	<u>12</u>	<u>W. Brier</u>		<u>8</u>	<u>J. Jellins</u>		<u>8</u>
B				<u>L. Berry</u>		<u>8</u>	<u>F. Foder</u>		<u>8</u>
C	<u>C Anderson</u>		<u>12</u>	<u>D. Ferguson</u>		<u>8</u>	<u>W. Shellman</u>		<u>8</u>

Remarks: 5 hrs. Day Work  
B.P. Berhop

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 1.0K Date: 9 13 19 83 Drill 40500 3254 3356  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: COSO CAL Foreman's Signature: Gary 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>74-2</u>	<u>90</u>		<u>1 1/2</u>	<u>2348</u>	<u>2388</u>			<u>40</u>	<u>29</u>		
Aft B												
Nite C	<u>74-2</u>	<u>90</u>		<u>1 1/2</u>	<u>2388</u>	<u>2417</u>			<u>29</u>	<u>29</u>		

Hourly Distribution				Supplies Consumed			
	Day	Aft.	Nite				
Core Drilling	<u>12</u>		<u>12</u>	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#	<u>NOVA</u>	<u>4</u> <u>6</u> <u>3</u>
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	<u>12</u>		<u>12</u>				
Driller's Initials	<u>RL</u>		<u>ef</u>				

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>R. Lavesay</u>	<u>12</u>	<u>W. Bigler</u>	<u>8</u>	<u>JL Jankins</u>	<u>8</u>
B			<u>L Berry</u>	<u>8</u>	<u>F Loder</u>	<u>8</u>
C	<u>C Anderson</u>	<u>12</u>	<u>D Ferguson</u>	<u>8</u>	<u>W Shellman</u>	<u>8</u>

Remarks: Water Hauler Drove To Supply Pump AT 0500  
Pump was Turned off. Couldn't get any water  
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 12 19 82 Drill H/5001 2254 3256  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: COCO 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 Re-covered	Size	Footage
Day A	<u>C6L 74-2</u>	<u>90</u>		<u>HQWL</u>	<u>2289</u>	<u>3322</u>			<u>34</u>	<u>34</u>		
Aft B												
Nite C	<u>C6L 74-2</u>	<u>90</u>		<u>HQWL</u>	<u>3322</u>	<u>3446</u>			<u>26</u>	<u>26</u>		

Hourly Distribution				Supplies Consumed					
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Handling Rod (change bit)	12		12	Portland			Number of Units		
Overburden - rock bit				Lumnite					
Collaring Hole - Dia. bit				Calseal					
Rotary Drilling				Mud	50#	ALMA	5	7	3
Handling Rod (bit)				Mud	100#				
Rock Bit - Overburden				Other (Describe)					
Reaming ( to )						DICKS MUD SEAL	1		
Casing - Placing						100lb CMC		1	
- Pulling						Poly L			
Delays - Client Acct.									
Cementing - Handling Rods						OTHER			
- 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		12						
Driller's Initials	RL		CH						

Shift	DRILLERS		Hrs.	HELPERS		Hrs.	TRUCK DRIVERS		Hrs.
A	<u>R</u>	<u>Lovesoy</u>	<u>12</u>	<u>W</u>	<u>Brier</u>	<u>8</u>	<u>J</u>	<u>Jenkins</u>	<u>8</u>
B				<u>L</u>	<u>Berry</u>	<u>8</u>	<u>F</u>	<u>Loder</u>	<u>8</u>
C	<u>C</u>	<u>Anderson</u>	<u>12</u>	<u>D</u>	<u>Ferguson</u>	<u>8</u>	<u>W</u>	<u>Shellman</u>	<u>8</u>

Remarks: B.F. 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 1983 Drill HD 5111 / 3354 / 3356  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: COSO CAI 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>CGCTCH 90</u> <u>74-2</u>			<u>HQWL</u>	<u>2256</u>	<u>2223</u>			<u>17</u>	<u>17</u>		
Aft B	<u>CGCTCH</u> <u>74-2 90</u>			<u>HQWL</u>	<u>2273</u>	<u>2289</u>			<u>16</u>	<u>16</u>		
Nite C												

Hourly Distribution				Supplies Consumed			
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Day Aft. Nite
Handling Rod (change bit)	<u>5</u>		<u>6</u>	Portland			
Overburden - rock bit	<u>2.5</u>			Lumnite			
Collaring Hole - Dia. bit				Calseal			
Rotary Drilling				Mud	50#	<u>NOVA</u>	<u>2</u> <u>6</u> <u>6</u>
Handling Rod (bit)				Mud	100#		
Rock Bit - Overburden				Other (Describe)			
Reaming ( to )	<u>2</u>						
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>Reaming To Bottom</u>			<u>5</u>				
<u>Drilling Cave</u>			<u>12</u>				
Total Hours	<u>12</u>		<u>12</u>				
Driller's Initials	<u>RL</u>		<u>CH</u>				

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>R. Lovejoy</u>	<u>12</u>	<u>W. Bigler</u>	<u>8</u>	<u>J.L. Jenkins</u>	<u>8</u>
B			<u>L. Berry</u>	<u>8</u>	<u>F. Loder</u>	<u>8</u>
C	<u>C. Anderson</u>	<u>12</u>	<u>D. Ferguson</u>	<u>8</u>	<u>W. Shellman</u>	<u>8</u>

Remarks: 1 hr. Day work.

B.P. Bishop



**LONGYEAR COMPANY**  
Contracting Division  
General Office  
Minneapolis, Minnesota 55414

**"DAILY DRILL REPORT"**

Contract: CHINA LAKE Date: 9 10 19 83 Drill HD 5001 33541 3356  
Location: COSO CAL Foreman's 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
Day A	<u>CGC-14 742</u>	<u>90</u>		<u>HQWL</u>	<u>3190</u>	<u>2208</u>			<u>18</u>	<u>18</u>		
Aft B	<u>CGC-14 74-2 90</u>	<u>90</u>		<u>HQWL</u>	<u>2208</u>	<u>2244</u>			<u>36</u>	<u>36</u>		
Nite C	<u>CGC-14 74-2 90</u>	<u>90</u>		<u>HQWL</u>	<u>2244</u>	<u>2256</u>			<u>12</u>	<u>12</u>		

Hourly Distribution				Supplies Consumed			
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Number of Units
Handling Rod (change bit)	<u>7</u>	<u>8</u>	<u>8</u>	Portland			
Overburden - rock bit				Lumnite			
Collaring Hole - Dia. bit				Calseal			
Rotary Drilling				Mud	<u>50#</u>	<u>NOVA</u>	<u>3</u>
Handling Rod (bit)				Mud	<u>100#</u>		<u>4</u>
Rock Bit - Overburden				Other (Describe)			<u>5</u>
Reaming ( to )				<u>POLYCECEL</u>			<u>1</u>
Casing - Placing				<u>100lb Soda Ash</u>			<u>1</u>
- Pulling							
Delays - Client Acct.							
Cementing - Handling Rods							
- Prep Hole & Grout							
- Setting							
- Drilling							
Moving - Hole to Hole							
Rigging Up - Rigging Down							
Mix Mud	<u>2208</u>						
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>RL</u>	<u>CJA</u>	<u>GH</u>				

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>R. Lovejoy</u>	<u>8</u>	<u>D. Ferguson</u>	<u>8</u>	<u>W. Shellman</u>	<u>8</u>
B	<u>G. Anderson</u>	<u>8</u>	<u>W. Bigler</u>	<u>8</u>	<u>J. L. Jenkins</u>	<u>8</u>
C	<u>K. R. Hall</u>	<u>8</u>	<u>L. Berry</u>	<u>8</u>	<u>F. Loder</u>	<u>8</u>

Remarks: B.O. P. - Kill Line - MASTER VALVE CHECKED  
AT 2200 FT. LTB  
B.P. Foxberg

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





# Nova Mud Corporation

6864 So. Cottonwood No. 1  
Midvale, Utah 84047

Report No. **15**

Date	<b>9-10</b>	19	<b>83</b>	Depth	<b>2202</b>
API WELL NO.	<b>Calif</b>	State	<b>Indo</b>	County	<b>CGE-14-2</b>

Operator	<b>CAL ENERGY</b>	Contractor	<b>LONGYEAR</b>	Rig. No.	<b>AD-500</b>
Address		Address		Spud Date	<b>8-5-83</b>
Report for Mr.	<b>BIB PRYDE</b>	Report for Mr.	<b>G. FERGUSON</b>	Section	Township Range

Well Name and No.	Field	County	State
Operation	Casing	Mud Volume	Circulation Data
Present Activity	Size Surface Depth	Hole Pits	Pump Size
Bit Size Make No Dep in	Intermediate	Total	Pump Make Model
Drill Pipe Size R.P.M.	Other	BBI/Stroke	Stroke/mix
Drill Collar Size Wt.	Mud Type	BBI/Min	

Flowline Temp	Mud Properties	Suggested Treatment
Time	<b>12 PM</b>	
Depth	<b>2200</b>	<b>CONTINUE MIX</b>
Weight	<b>8.4</b>	<b>1 qt Soda Ash</b>
Funnel Viscosity Sec./Qt.	<b>40</b>	<b>1 1/2 - 2 Bags Gel</b>
Apparent Viscosity		<b>2 qts CHE</b>
Plastic Viscosity Cps.		<b>1/2 qt Poti Corel</b>
Yield Point Lb./100 Sq. Ft.		
Gel Strength Lb./100 Sq. Ft.		
PH	<b>8</b>	<b>TREAT w/ MUD SEAL EVERY</b>
API Fluid Loss CC/30 min.	<b>12</b>	<b>OTHER MIX</b>
Filter Cake Thickness	<b>4/32</b>	
Alkalinity of Filtrate	<b>.1</b>	Daily Mud Costs
Chloride PPM	<b>1000</b>	Product Used
Calcium PPM	<b>4</b>	Amount
Sand Content %	<b>0%</b>	Cost/Unit
Solids Content %		Total
Oil Content %		

Formation Drilled	<b>SOLID w/ FRACTURES</b>
Comments	<b>LOST CIRCULATION AT 2202'</b>
	<b>PUMP PUG DOWN</b>
Nova Engineer	<b>B. H. Heng</b>
Address	
Telephone	
Warehouse Location	
Address	
Telephone	
Daily Cost	
Previous Total	
Total Cost	



Minneapolis, Minnesota 55414

DRILL NO.      TRUCK NO.

[illegible]

Hourly Distribution	Day	Aft.	Nite
Core Drilling	3	8	8
Handling Rod (change bit)	5		
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)			
Total Hours	8	8	8
Driller's Initials	RL	GA	JH

  

Supplies Consumed		Day	Aft.	Nite
Description	Size	Number of Units		
Portland				
Lumnite				
Calseal				
Mud	50#	4	5	4
Mud	100#			
Other (Describe)				
<b>OTHER</b>				
Water hauling	36 miles	2		
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	R. Lovejoy	8	D. Ferguson	8	W. Sheppard	8
B	C. Anderson	8	W. Bigler	8	J. L. Jenkins	8
C	K. R. Hall	8	L. Barry	8	I. Loder	8

Remarks: B.P Bishop

OFFICE SUPPLY DIST., INC.—MINNEAPOLIS, MINN. 55402

CLIENT





# Nova Mud Corporation

6864 So. Cottonwood No. 1  
Midvale, Utah 84047

Report No. **14**

Date	9-9	1982	Depth	2100'
API WELL NO.	INTO	State	Calif.	County
				Well

Operator	CAL ENERGY	Contractor	LONGYEAR	Rig. No.	HD-500
Address	SANTA ROSA	Address	RENO	Spud Date	8-5-83
Report for Mr.	BOB PYROE	Report for Mr.	GARY FERGUSON	Section	Township Range
Well Name and No.	CGC 74-2	Field		County	State

Operation	Casing	Mud Volume	Circulation Data
Present Activity	Size Surface Depth	Hole Pits	Pump Size
Coreing	5 1/2 300'		
Bit Size Make No Dep in	Intermediate	Total	Pump Make Model
HQ	4 1/2 1164'		
Drill Pipe Size	R.P.M.	Other	BBI/Stroke Stroke/mix
			Pressure
Drill Collar Size	Wt.	Mud Type	BBI/Min
			Bottoms up
			Circulation

Flowline Temp	Mud Properties	Suggested Treatment
Time	4 PM	MIX - CONTINUE
Depth	2127	1 QT SODA ASH
Weight	8.4	1 1/2 BAGS GEL
Funnel Viscosity Sec./Qt.	43	2 QTS CMC
Apparent Viscosity		5 QT POLYCOREL
Plastic Viscosity Cps.		
Yield Point Lb./100 Sq. Ft.		
Gel Strength Lb./100 Sq. Ft.		
PH	8	ADD PAPER EVERY OTHER MIX
API Fluid Loss CC/30 min.	12	
Filter Cake Thickness	2/32	

Alkalinity of Filtrate	Daily Mud Costs
Chloride PPM	Product Used Amount Cost/Unit Total
Calcium PPM	Hi Yield GEL 120 5.88 705.60
Sand Content %	CMC 3 150.50 451.50
Solids Content %	POLYCOREL 5 95.00 475.00
Oil Content %	MUD SEAL 1 13.80 13.80
Formation Drilled	
SOLID - FRACTURED	
W/ CLAY STRINGERS.	
CIRCULATION RETURN ABOUT 50%	
	MUD USED FROM 9/2 7AM - 9/9 7AM
	585' DRILLED THIS PERIOD
	VAN INVENTORY
	9/2 7AM 1645.90
	9/9 7AM 7406.64
	9/2 Previous Total 9052.54
	2433 TOTAL FOOTAGE 3.13/FT
	MUD COST

Nova Engineer	Bob Menzies
Address	RENO
Telephone	702 972-6800 OFF
Warehouse Location	702-359-0293 RES.
Address	
Telephone	