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Longyear

Longyear Company

308 E. Pima Street
Phoenix, AZ 85004

Telephone: (602) 258-6543
Telex: 667-428

July 18, 1985

Ben F. Dickerson III
7340 E. Shoeman Lane
Suite 111 "B" (E)
Scottsdale, Arizona 85251

Dear Sir:

Enclosed you will find our proposal covering your planned drilling project located near Jerome, Arizona.

For this program we would plan to furnish a Longyear LM-37 drill machine, requiring 440 3 phase power on site. It is understood that an electrician will be available at no expense to Longyear Co. to wire power to the equipment.

It is also understood that miners lamps and self rescue will be furnished by the client at no cost to Longyear Company.

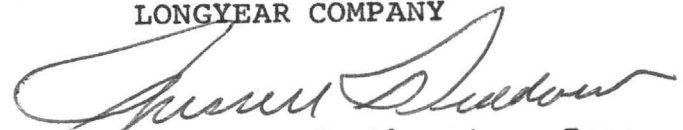
In computing the diamond drilling footage charges as outlined in the attached proposal, Longyear has assumed that the diamond bit expense will not exceed \$2.50 per foot drilled. In the event the actual diamond bit expense experienced on the program exceeds the \$2.50 per foot allowance, 50% of such overage will become an invoiceable charge in addition to all other outlined charges.

It is understood that a prepayment of \$10,000.00 will be needed before drilling will commence, and that this prepayment will be used as retention money toward the last invoice. Invoicing will be twice a month, due upon receipt. However, if sufficient financial information can be furnished to Mr. Bob Martin in our Minneapolis office, phone (612) 331-1331, he will determine if the billing can be open account.

We appreciate the opportunity to make our drilling service available to you for this project.

Sincerely

LONGYEAR COMPANY



Manager, Southwestern Zone
Contract Drilling Division

RGB/sb
c: D. Swayne
Encl.



**DRILLING
PROPOSAL**

Submitted by: Longyear Co.

To: Ben F. Dickerson III
7340 E. Shoeman Lane
Suite III "B" (E)
Scottsdale, Arizona 85251

Attn: Mr. Ben Dickerson III

Date July 18, 1985

Subject: Drilling Program Located Near -
Jerome, Arizona

1. Mobilization and Demobilization of personnel and equipment - per rig from and to portal.

a. Coring rig: Mobilization - \$ 500.00 Demobilization - \$ 500.00

 b. Rotary rig: Mobilization - \$ _____ Demobilization - \$ _____

2. Overburden Drilling (or collaring hole)

From (ft)	To (ft)	Rock Bit Size		Diamond Bit Size	
-----	-----	-----	-----	-----	-----
-----	-----	\$ -----	\$ -----	\$ -----	\$ -----
-----	-----	-----	-----	-----	-----
-----	-----	-----	-----	-----	-----

3. Rotary Drilling

From (ft)	To (ft)	Hole Size(s)		
-----	-----	-----	-----	-----
-----	-----	\$ -----	\$ -----	\$ -----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

4. Diamond Core Drilling

From (ft)	To (ft)	Core Size(s)		
		2.5" HQ	1.875" NQ	BQ
0	250	\$ 23.85	\$ 23.15	\$ 22.85
0	500	-----	23.15	22.85
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----
-----	-----	-----	-----	-----

Angle hole drilling Add \$ _____ Per Ft.

**LONGYEAR COMPANY
DRILLING PROPOSAL**

To: _____

Date July 18, 1985

5. Rig Time (2 man crew)

	Rate per Hour	
	Rotary Rig	Core Rig
a. Cementing — hole preparation, grouting and drilling (including necessary rod handling time)	\$-----	\$ <u>67.10</u>
b. Hole stabilizing and/or plugging	\$-----	\$ <u>67.10</u>
c. Installing and pulling casing	\$-----	\$ <u>67.10</u>
d. Rigging up and down	\$-----	\$ <u>59.50</u>
e. Moving between holes	\$-----	\$ <u>59.50</u>
f. Drilling, reaming, casing, stabilizing, etc. (hourly contracts)	\$-----	\$-----
g. Re-entry and cleaning out old hole, plus cost of all bits and supplies	\$-----	\$-----
h. Installing and dismantling water lines	\$-----	\$ <u>59.50</u>
i. Tractor service (or at Longyear's hired cost)	\$-----	\$ <u>N/A</u>
j. Hole survey or inclination test plus rental & related cost of instrument.	\$-----	\$ <u>59.50</u>
k. Wedging operations, plus cost of wedge and wedge bits	\$-----	\$-----
l. Time spent moving equipment from portal into mine and out at end of project.	\$-----	\$ <u>59.50</u>
m.	\$-----	\$-----

6. Standby or Delays

For the convenience or the responsibility of client (2 man crew) \$----- \$ 59.50

7. Casing and Casing Shoe (at Longyear List Price)

a. Left in hole at client's request 100 %
 b. Lost through normal drilling operations. 100 %

8. Reaming ~~Plus Fix~~ will be invoiced at \$67.10 per hour plus bits.

AT DEPTH	to	to	to	to
----- to ----- ft.	\$-----	\$-----	\$-----	\$-----
----- to ----- ft.	-----	-----	-----	-----
----- to ----- ft.	-----	-----	-----	-----
----- to ----- ft.	-----	-----	-----	-----

LONGYEAR COMPANY
DRILLING PROPOSAL

To: _____

Date July 18, 1985

9. In hole materials Invoicable to Client (At Longyear FOB job cost plus 12 %)

- a. Drill mud Yes X No -----
- b. Mud additives..... Yes X No -----
- c. Hole stabilizing or plugging materials..... Yes X No -----
- d. Cement Yes X No -----
- e. Hole plugs Yes X No -----
- f. Other Soluble oil Yes X
- Rod Grease Yes X

10. Water Furnishing Charges

- a. Water truck rental charge..... \$ ----- per month
- b. Water truck mileage ----- per mile
- c. Water truck driver (full time,if required) \$ ----- Per hour
- d. Water, if purchased..... At Longyear's cost
- e. Water line installation and dismantling \$ 59.50 Per hour

11. Access Roads and Drill Sites will be Prepared and Maintained by:

- (X) Client
- (---) Longyear Co. @ \$ ----- Per hour

12. Core Boxes

- HQ size @ \$ 3.00 each + freight
- NQ-BQ size @ \$ 2.75 each + freight

13. Footage Compensation (hourly contracts) \$ ----- per foot drilled

14. Per Diem Charge To cover living allowances for crews. \$ ----- per man
per day worked

15. Bits and Setting Charges (at Longyear's list price)

- a. Rotary or rock bits Yes ----- No X
- b. Diamond bits and shells in excess of \$2.50 per foot,
 split 50/50. Yes X No -----

16. Other See cover letter.

LONGYEAR COMPANY
DRILLING PROPOSAL
GENERAL SPECIFICATIONS

To: _____

Date July 18, 1985

17. Anticipated Requirements and Conditions

- a. One Drill(s); type Longyear LM-37
- b. one Shift(s) per day (2 man crew @ 8 hours per shift).
- c. 6 Day(s) per week
- d. Minimum contract footage 4,000 ft.
- e. Number of holes 10+
- f. Maximum depth 400 ft.
- g. Average depth 250 ft.
- h. Attitude of holes (from horizontal)
- 1) Vertical _____.
- 2) Angle @ 6-20 degrees. up
- i. Average depth of overburden _____ ft. Composition _____
- j. Size of hole or core size required: HQ, NQ, BQ
- k. Rock type to be drilled: _____
- l. Other: _____

18. Insurance:

We will carry Comprehensive General Liability and Automobile Insurance covering personal injury and property damage and also statutory Workmen's Compensation Insurance. Certificates showing these coverages will be furnished upon request.

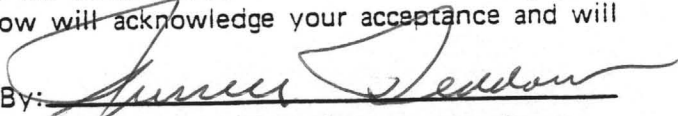
19. Invoices

- a. Invoices covering the work performed will be prepared as promptly as possible after the fifteenth and last day of each month and payment shall be due upon receipt of invoice.
- b. Invoices arising from this project will be subject to all applicable state taxes (Sales, Use, Gross Receipts, Privilege, etc.)

20. Prices quoted herein are firm only if this proposal is accepted on or before _____ and if work is commenced within a reasonable period of time.

21. This proposal together with its covering letter will constitute the terms and conditions of this working agreement. Your authorized signature in the space provided below will acknowledge your acceptance and will validate the agreement.

ACCEPTED:
Company _____

By: 
Manager, Southwestern Zone
Contract Drilling Division

By _____ Title _____

Date _____

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 2 4 1986 Drill 34 1/2" drill / 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack B. Hayslip

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												
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
Day	Aft.	Nite		Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
				Core Drilling							
				Handling Rod (change bit)							
				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)							
				LOADING TRUCK							
				GETTING READY TO PULL OUT							
				Total Hours							
				Driller's Initials							

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	1	W.R. MILLS	1		
B						
C						

Remarks: W.M. JA

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY
 Contracting Division
 General Office
 Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G Date: 2 3 1986 Drill 34" steel drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R. Hayslip

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			<i>Moving out</i>									
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
Day	Aft.	Nite		Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
				Core Drilling							
				Handling Rod (change bit)							
				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)							
				<i>TAKING DOWN AIR</i>							
				<i>AN WATER LINES</i>							
				<i>Checking used Bits</i>							
				<i>AN New Bits to</i>							
				<i>MAIL</i>							
				Total Hours							
				Driller's Initials							

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<i>J.R. Hayslip</i>	<i>10</i>	<i>W.R. Mills</i>	<i>8</i>		
B						
C						

Remarks: *[Signature]*

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
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- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge u.g. Date: 1 31 1986 Drill 34skid drill / 704 /

Location: Jerome, Ariz. Foreman's Signature: Jack R Haystip

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	806-1	-3°	Moving								HA	350
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed								
Day	Aft.	Nite		Description	Size	Product Name	Day	Aft.	Nite	Number of Units		
				Core Drilling								
				Handling Rod (change bit)								
				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								
				Driller's Initials								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSTIP	8	W.R. MILLIS	8		
B						
C						

Remarks: TAY 06 TO PULL casing wouldnt pull got out 40

677

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INSTRUCTIONS

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- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 30 19 86 Drill 34 skid drill 704 1
 Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°	PULLING CASING AND MOVING OUT	BA						HA	350	
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	5							
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)								
MAINT ON CUTTER	1							
Moving Rods to SURFACE	2							
Total Hours	8							
Driller's Initials	JRH							

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	J.R. HAYSLIP	8	W.R. MILLS	8		
B						
C						

Remarks: CUT HA CASING AT 305 WOULDN'T PULL CUT IT AT 300
SAME THING 275, 250, 225 200, 175 150 STILL WON'T PULL
677

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 29 1986 Drill 34 skid drill 704 1
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R Hayship

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	806-1	30	Chert END OF HOLE 632	BG	618	632			19	19		
Aft B												
Nite C												

Hourly Distribution			Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	4			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)									
MOVING DRILL EQUIP TO SHAFT AND MOVING RODS TO SURFACE	4								
Total Hours	8								
Driller's Initials	JR16								

OTHER
 Water hauling _____ miles _____ loads
 Core boxes: BG size/ 1 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	J.R. HAYSHIP	8	W.R. MILLS	8		
B						
C						

Remarks: B77

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

INSTRUCTIONS

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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays--Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
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- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 28 1986 Drill 3 1/2" skid drill 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	3°	Chert	BQ	608	618			10	7	HQ 350 MQ 610	
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	4			Portland					
Handling Rod (change bit)	2			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	2								
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods									
- 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	BQ	L90869	610		
				first bit	BQ	L71930	613		
				in hole)					
Total Hours	8								
Driller's Initials	JRH								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. HILLS	8		8
B						
C						

Remarks: _____

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

INSTRUCTIONS

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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
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- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 27 19 86 Drill 34 skid drill / 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R. Hayslip

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	806-1	3°	Chert	BG	603	608			5	2		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
				Product					
Day	Aft.	Nite		Description	Size	Name	Day	Aft.	Nite
				Number of Units					
Core Drilling	5			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				Mud		5gal EZ Mud			
Reaming (to)									
Casing - Placing	5								
- 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	BG	L81125	608		
				first bit	BG				
				in hole)					
Total Hours	8								
Driller's Initials	JRH								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: drilled casing to 608 had to go inside with B rods and
drill ahead then hook onto N rods and drill them in 77

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

LONGYEAR COMPANY
Casing Division
General Office
Minnesota, Minnesota 55114

Contract: Budge U.S. 1
Date: 5/19/81
MONTH: MAY DAY: 19
Location: Jonesville

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other: _____) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 25 19 86 Drill 34 skid drill / 904 /

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	3'		BQ	601	603			2	0	HQ 350'	
Aft B											HQ 601	
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)	2									
Casing - Placing	4									
- 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				Lost bits: Size		Serial no.				
Condition Hole, Lost Circulation				Depth:		ft. Hole #				
Surveying, Inclination Test				Casing lost or left in hole: Size		ft.				
Mobilization/Demobilization				for Client		Hole #				
Other (Explain)				Longco		Hole #				
Maint	2			Bit changes:	Size	Serial #	Depth			
				(Include	NQ	L97607	601'	Rob shoe		
				first bit	BQ	L87191	601'			
				in hole)						
Total Hours	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: drilled in Rob shoe 2' across void

[Signature]

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

LONGYEAR COMPANY
Logging Division
General Office
Mississauga, Ontario, Canada

INSTRUCTIONS

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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
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- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 24 19 86 Drill 34 skid drill 704 1
 Location: Jerome, Ariz Foreman's Signature: Jack B Hayslip

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	806-1	-3°	cheat	NG	585	601			16	109	HQ	350
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
Core Drilling	5			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	1										
- Pulling	1										
Delays - Client Acct.											
Cementing - Handling Rods				OTHER							
- Prep Hole & Grout				Water hauling		miles				loads	
- Setting				Core boxes:	NG	size/	1			no.	
- Drilling				Length of waterline:							
Moving - Hole to Hole				Lost tools: Description							
Rigging Up - Rigging Down				Lost bits: Size		Serial no.					
Mix Mud				Depth:		ft. Hole #					
Condition Hole, Lost Circulation				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	NG	L90647	588'				
				first bit							
				in hole)							
Total Hours	8										
Driller's Initials	JRH										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSLIP	8	W.R. MILLS	0		
B						
C						

Remarks: drilled into void at 594 to 601 pulled Rods out to put on Rod shoo to drill across void to go to 601.

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

LONGYEAR COMPANY
Contract Division
General Office
Minneapolis, Minnesota 55412

Contract No. 100-100-100-100
Date: 1/1/1980
Month: 1
Day: 1
Form No. 100-100-100-100

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 23 1986 Drill 34 skid drill / 704 /
 Location: Jerome, Ariz Foreman's Signature: Jack R. Haystip

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	806-1	-30	cheat	NA	573	585			12	10	NA	350
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	5			Portland					
Handling Rod (change bit)	1			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				Water hauling		miles			loads
- Setting				Core boxes:	NA	size/	1		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) <u>REAMING</u>	2			for Client		Hole #			
<u>Rods to Bottom</u>				Longco		Hole #			
				Bit changes:	Size	Serial #	Depth		
				(Include	NA	L90424	578'	Reamer	
				first bit	NA	L90611	578'		
				in hole)	NA	L97493	578'		
					NA	L97881	585'		
Total Hours	8								
Driller's Initials	JRH								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSTIP	8	W.R. MILLS	8		
B						
C						

Remarks: [Signature]

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 55402

Contract No.
Date 1-23-84 DAY MONTH YEAR
Location

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 22 19 86 Drill 34skid drill/ 704/1
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz Foreman's Signature: Jack R Hayslip

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	806-1	-3°	Chert	NG	534	573			19	16	HA	350'
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	1			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				Water hauling		miles			loads
- Setting				Core boxes:	02	size/	NG		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	NG	L90637	558		
				first bit					
				in hole)					
Total Hours	8								
Driller's Initials	JRH								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYS/TP	8	W.R. MILLS	8		
B						
C						

Remarks:

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

Project: *Project No. 1*
Job: *Job No. 1*
Date: *DATE*
Month: *MONTH*
Year: *YEAR*
Location: *Location*

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
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- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
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- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
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LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.B. Date: 1 21 19 86 Drill 34skiddill 704 1
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°	cheat	NA	533	554			21	18	HQ	350
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed																
Core Drilling	Handling Rod (change bit)	Overburden - rock bit	Collaring Hole - Dia. bit	Rotary Drilling	Handling Rod (bit)	Rock Bit - Overburden	Reaming (to)	Casing - Placing	Delays - Client Acct.	Cementing - Handling Rods	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	
Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units											
6			Portland																	
			Lumnite																	
			Calseal																	
			Mud	50#																
			Mud	100#																
			Other (Describe)																	
			OTHER																	
			Water hauling		miles		loads													
			Core boxes:	NA	size/	2	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)	NA	L9650	538														

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	6		
B						
C						

Remarks: 677

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

CLIENT

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 20 1986 Drill 34skid drill / 7041
 Location: Jerome, Ariz. Foreman's Signature: Jade R Hayslip

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	806-1	-3°	cheet	NA	520	533			13	10	HA	350
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	2			Portland					
Handling Rod (change bit)	2			Lumnite					
Overburden - rock bit				Calseal					
Collaring Hole - Dia. bit				Mud	50#				
Rotary Drilling				Mud	100#				
Handling Rod (bit)				Other (Describe)					
Rock Bit - Overburden				Mud	5 gal	E2 Mud			
Reaming (to)									
Casing - Placing									
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods				OTHER					
- Prep Hole & Grout				Water hauling		miles			loads
- Setting				Core boxes:	NA	size/	1		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	NA	L97494	520'		
				first bit	NA	L90643	527'		
				in hole)					
Total Hours	8								
Driller's Initials	JR16								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	8		
B						
C						

Remarks: 677

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

LONGYEAR COMPANY
Contract Division
General Office
Minneapolis, Minnesota 55412

Contract: Budget U.S. 1 50' 30' Drill
DATE: 10/11/11
TYPE: CORE DRILLING

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 19 86 Drill 34 skid drill 704 1
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's 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	206-1	-3°		NG	512	500			8	7	HB	350
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling	3			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	497-512	5								
Moving - Hole to Hole										
Rigging Up - Rigging Down										
Mix Mud										
Condition Hole, Lost Circulation										
Surveying, Inclination Test										
Mobilization/Demobilization										
Other (Explain)										
Total Hours	8									
Driller's Initials	JRH									

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 NG L91882 508

first bit _____

in hole) _____

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYS/1P	8	W.R. Mills	0		
B						
C						

Remarks: _____

677

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 55417

Budget No. 1
Job No. 1
Date
Month
Year
Location

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays--Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other: _____) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY
Contracting Division
General Office
Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 18 19 86 Drill 34 skid drill / 704 / 1
MONTH DAY TYPE DRILL NO. TRUCK NO.
Location: Jerome, Ariz. Foreman's Signature: Jack B. Murphy

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	806-1	30	Cement									
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
Day	Aft.	Nite		Description	Size	Product Name	Day	Aft.	Nite
				Portland			Number of Units		
				Lumnite					
				Calseal					
				Mud	50#				
				Mud	100#				
				Other (Describe)					
				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)					
				Total Hours					
				Driller's Initials					

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSLIP		W.R. MILLS			
B						
C						

Remarks: B 77

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 17 1986 Drill 34skid drill / 701 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R. Hayslip

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	806-1	-30	Chart		512							
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				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 #				
<i>stand-by waiting for cement to set</i>			4	Longco		Hole #				
				Bit changes: Size		Serial #	Depth			
				(Include first bit in hole)						
Total Hours			4							
Driller's Initials			JRH							

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	4	W.R. MILLS	4		
B						
C						

Remarks: *BTF*

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

LONGYEAR COMPANY
Contracting Division
General Office
Minnesota, Minnesota 55401

Contract: Bridge No. 17
Date: 1/17/81
Location: Irons, Ariz.

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mislatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays--Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
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- n. **Supplies consumed:)**
Other:) List appropriately.
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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 16 19 86 Drill 34 skid drill 704 1

Location: Jerome, Ariz. Foreman's Signature: Jock R Hayslip

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	806-1	30	Chert		512							
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				Mud	50#						
Handling Rod (bit)				Mud	100#						
Rock Bit - Overburden				Other (Describe)							
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 #					
<u>stand-by waiting 4</u>				Longco		Hole #					
<u>For cement to 50'</u>				Bit changes:	Size	Serial #	Depth				
				(Include							
				first bit							
				in hole)							
Total Hours		4									
Driller's Initials		JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	4	W.R. Mills	4		
B						
C						

Remarks: BTF

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

LONGYEAR COMPANY
Consulting Division
General Office
Minneapolis, Minnesota 55414

DAILY DRILL REPORT

INSTRUCTIONS

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Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
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Other:) List appropriately.
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LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 15 19 86 Drill 34pkid drill 704 1

Location: Jerome, Ariz. Foreman's Signature: Jack R. Hayslip

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	806-1	3°	chert	BG	507	512			5	6"	HQ	350
											NG	505
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling	2			Portland						
Handling Rod (change bit)	1			Lumnite						
Overburden - rock bit				Calseal						
Collaring Hole - Dia. bit				Mud	50#					
Rotary Drilling				Mud	100#					
Handling Rod (bit)				Other (Describe)		Furnished By B.M.T.				
Rock Bit - Overburden				Portland Cement			5 days			
Reaming (to)										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods	4									
- 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 #				
Water Pump	1			Longco		Hole #				
				Bit changes: Size		Serial #			Depth	
				(Include						
				first bit						
				in hole)						
Total Hours	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	8		
B						
C						

Remarks: Fixed Water Pump drilled Rods to Bottom still in Bal Cave Pulled out BG Rods and cemented throw NG casing and pulled them out, used Portland cement will allow 2 days for it to set will be on stand by until Sat

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

LONGYEAR COMPANY
Contracting Division
General Office
Whitehouse, Minnesota 55114

Budget N.E. 0.1
1 1/2 1/2 1/2 1/2
1 1/2 1/2 1/2 1/2
1 1/2 1/2 1/2 1/2

INSTRUCTIONS

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- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
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- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LONGYEAR COMPANY

Contracting Division
General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 14 1986 Drill 34 inch drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°	Chert	BA	507					HA	350	
										NA	505	
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)	1 1/2			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.									
<u>Water Pump</u>	2								
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>TRAVEL</u>	3 1/2								
<u>Moving Rods to SURFACE</u>	1								
Total Hours	8								
Driller's Initials	JRH								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: Liner Busted on water pump met mol at black clay in City we picked it up, Helper worked on cleaning drill equipment off 11' level to the surface

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CLIENT

INSTRUCTIONS

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- Overburden-Rock Bit:** Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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- Bit Change:** Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**) List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 13 19 86 Drill: 34 skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°	BQ	Chor ^T	504	507			3	1	HQ	350
											NG	505
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Handling Rod (change bit)	3			Portland						
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)				5gal BROASQ FROM						
Casing - Placing	2			BROOKS MINERAL						
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods										
- Prep Hole & Grout				OTHER						
- Setting				Water hauling	miles	loads				
- Drilling				Core boxes:	size/	no.				
Moving - Hole to Hole				Length of waterline:						
Rigging Up - Rigging Down				Lost tools: Description						
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 #				
Moving BQ Rods	2			Longco		Hole #				
From 11 to 8				Bit changes:	Size	Serial #	Depth			
				(Include	BQ	L84044	504	REAMER		
				first bit	BQ	L87194	504			
				in hole)						
Total Hours	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYS LIP	8	W.R. MILLS	8		
B						
C						

Remarks: Hole in bad shape cause from 480 to 504 by the when rods are drilled to bottom they are torqued up so bad they won't turn. suggest casing or cementing, cased to 504 drilled BQ to 507 AN drilled NG casing over rods to 506

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

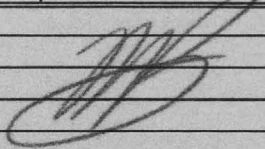
Contract: Budge U.G. Date: 1 11 1986 Drill 34skid drill 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: J.A. Hayslip

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	806-1	-30	Chert	496	504			9	2			
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										
- 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	NO	L84613	496			
				first bit	NO	L90906	496		ROAMOR	
				in hole)						
Total Hours										
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP		W.R. MILLS			
B						
C						

Remarks: 

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
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- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
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THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

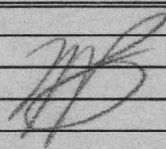
"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 10 19 86 Drill 34skiddrill 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°	cheat	NG	480	496			16	8		
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)	8			Portland							
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				Water hauling		miles				loads	
- Setting				Core boxes:	NG	size/	1			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) <u>drilling</u>	1			for Client		Hole #					
<u>OUT AND DRILLING</u>				Longco		Hole #					
<u>BACK TO BOTTOM</u>				Bit changes: Size		Serial #				Depth	
				(Include	NG	LB4113	487				
				first bit							
				in hole)							
Total Hours	8										
Driller's Initials	JRH										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: 

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 9 1986 Drill 34pkid drill / 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R. Haystip

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	806-1	3°	Chert	NG	458	480			22	17		
Aft B												
Nite C												

Hourly Distribution			Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
						Number of Units			
Core Drilling	06			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				oil	5gal	Rock drill			
Reaming (to)									
Casing - Placing									
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods				OTHER					
- Prep Hole & Grout				Water hauling		miles			loads
- Setting				Core boxes:	NG	size/	2		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 #			
Cleaning AN Pumping 1				Longco		Hole #			
Sludge out of drill site				Bit changes:	Size	Serial #	Depth		
				(Include	NG	L81497	477		
				first bit					
				in hole)					
Total Hours	8								
Driller's Initials	JRH								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSTIP	8	W.R. MILLS	8		
B						
C						

Remarks:

[Signature]

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

INSTRUCTIONS

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Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

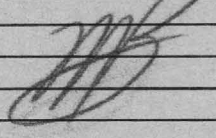
Contract: Budge, U.G. Date: 1 8 1986 Drill 34 skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack B Hayslip

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	806-1	-3°		NG	413	458			45	45		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling	8			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				Water hauling		miles			loads	
- Setting				Core boxes:	5	size/	NG		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	8									
Driller's Initials	JR16									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: 

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other: _____) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 7 1986 Drill 34pk'drill / 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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>806-1</u>	<u>-3°</u>		<u>NB</u>	<u>403</u>	<u>413</u>			<u>10</u>	<u>10</u>		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	<u>3</u>								
Handling Rod (change bit)									
Overburden - rock bit									
Collaring Hole - Dia. bit									
Rotary Drilling									
Handling Rod (bit)									
Rock Bit - Overburden									
Reaming (to)									
Casing - Placing	<u>3</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	<u>1</u>								
Mobilization/Demobilization									
Other (Explain)									
<u>1 drilling out old Hole 356 to 403</u>	<u>1</u>								
Total Hours	<u>8</u>								
Driller's Initials	<u>JRH</u>								

OTHER		
Water hauling	_____ miles	_____ loads
Core boxes:	<u>NB</u> size/	<u>2</u> 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>J.R. HAYS TIP</u>	<u>8</u>	<u>W.R. MILLS</u>	<u>8</u>		
B						
C						

Remarks: _____

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 6 19 86 Drill 34 skid drill 904 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°		HQ			340	350				
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
Day	Aft.	Nite		Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
				Core Drilling							
				Handling Rod (change bit)							
				Overburden - rock bit							
				Collaring Hole - Dia. bit							
				Rotary Drilling							
				Handling Rod (bit)							
				Rock Bit - Overburden							
			2	Reaming (340 to 350)							
				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							
			5	Surveying, Inclination Test							
				Mobilization/Demobilization							
			1	Other (Explain) <u>Prep. to</u>							
				<u>DRILL OUT END OF</u>							
				<u>HOLE TO SURVEY</u>							
			8	Total Hours							
			JRH	Driller's Initials							

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	8		
B						
C						

Remarks: _____

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mislatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY
Contracting Division
General Office
Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 3 19 86 Drill 34skid drill/ 404 /
MONTH DAY TYPE DRILL NO. TRUCK NO.
Location: Jerome, Ariz. Foreman's Signature: Jacob R Hayslip

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>806-1</u>	<u>-3°</u>		<u>HG</u>			<u>295</u>					
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	<u>50#</u>								
Rotary Drilling				Mud	<u>100#</u>								
Handling Rod (bit)				Other (Describe)									
Rock Bit - Overburden													
Reaming (<u>295</u> to)													
Casing - Placing													
- Pulling													
Delays - Client Acct.													
Cementing - Handling Rods													
- 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 #						
				(Include									
				first bit									
				in hole)									
Total Hours													
Driller's Initials													

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>J.R. HAYSIP</u>	<u>8</u>	<u>W.R. MILLS</u>	<u>8</u>		
B						
C						

Remarks: 677

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

LONGYEAR COMPANY
Logging Division
General Office
Minneapolis, Minnesota 55412

Contract: Bridge U.S. 138
Location: Jerome, Ariz.

DATE: 10/1/88
DRILL NO. 1001

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays--Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 2 1986 Drill 34 skid drill 7041
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack B. Hayslip

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	806-1	-3°		HQ	257	259	295	36				
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				Mud	50#						
Handling Rod (bit)				Mud	100#						
Rock Bit - Overburden				Other (Describe)							
Reaming (259 to 295)	3										
Casing - Placing											
- Pulling	3										
Delays - Client Acct.											
Cementing - Handling Rods											
- 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) <u>Prep. For</u>	2			for Client		Hole #					
<u>Reaming</u>				Longco		Hole #					
				Bit changes: Size		Serial #				Depth	
				(Include							
				first bit							
				in hole)							
Total Hours	8										
Driller's Initials	JRH										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: Pulled Rods then Pulled H casing Ripped up AN WENT BACK IN WITH HQ CORE BARREL to 259' AN STARTED OVERREAMING

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 1 / 1 19 86 Drill 34 skid drill 704 /
 Location: Jerome, Ariz Foreman's 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												
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 #					
			<u>New Years Day</u>	Longco		Hole #					
				Bit changes:	Size	Serial #	Depth				
				(Include							
				first bit							
				in hole)							
			Total Hours								
			<u>8</u>								
			Driller's Initials								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>J.R. HAYSIP</u>	<u>8</u>	<u>W.R. MILLS</u>	<u>8</u>		
B						
C						

Remarks: _____

677

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 31 1985 Drill 34 skid drill 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: J.R. Hayslip

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	806-1	9		NQ	373	403			30	30		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
				Description			Product		Number of Units		
Day	Aft.	Nite		Description	Size	Name	Day	Aft.	Nite		
6			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:	3	size/	NQ			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:		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								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP		W.R. MILLS			
B						
C						

Remarks: MO Surveyed 3 times AT 260 - 273 - 323
P.L.F.

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

INSTRUCTIONS

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- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
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- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 30 19 85 Drill: 34 skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R. Hayslip

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	806-1	3°		NQ	338	373			35	35		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
Core Drilling	8			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				Water hauling		miles				loads	
- Setting				Core boxes:	4	size/	NQ			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	8										
Driller's Initials	JRH										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	8		
B						
C						

Remarks: B.F.A.

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INSTRUCTIONS

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- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

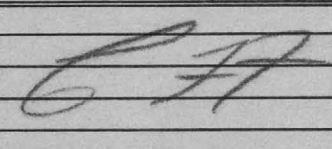
Contract: Budge U.G. Date: 12 28 1985 Drill 34 Skid Dr. 44 704 /

Location: Jerome, Ariz. Foreman's Signature: Jack R. Haylip

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	806-1	-3°		NA	300	338			38	38		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	8			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				Water hauling		miles			loads
- Setting				Core boxes:	3	size/	116		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	8								
Driller's Initials	JR/H								

Shift	DRILLERS	Hrs	HELPERS	Hrs	TRUCK DRIVERS	Hrs.
A	J.R. HAYSLIP	8	W.R. MILLS	6		
B						
C						

Remarks: 

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LONGYEAR COMPANY
 Contracting Division
 General Office
 Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 27 1985 Drill 34 skiddell 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°		NG	259	300			41	41		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
Core Drilling	8			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				Water hauling		miles				loads	
- Setting				Core boxes:	4	size/	NG			no.	
- Drilling				Length of waterline:							
Moving - Hole to Hole				Lost tools: Description							
Rigging Up - Rigging Down											
Mix Mud		3/4	7/8								
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	8										
Driller's Initials	JR/b										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: _____

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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 26 1985 Drill 34skiddrill 704 1
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jacob R Hayslip

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	806-1	-30		H9	284	259			16	16		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	3						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#				
Rock Bit - Overburden				Other (Describe)					
Reaming (to)									
Casing - Placing	5								
- 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								
Driller's Initials	JRH								

OTHER

Water hauling _____ miles _____ loads
 Core boxes: H9 size/ 2 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	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: _____

(Handwritten signature)

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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 25 1985 Drill 34 skid drill / 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°		HQ	371	371			371			
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	<u>8</u>			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				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 #			
<u>Christmas Holiday</u>				Longco		Hole #			
<u>didn't work</u>				Bit changes: Size		Serial #			Depth
				(Include					
				first bit					
				in hole)					
Total Hours	<u>8</u>								
Driller's Initials	<u>JRH</u>								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>J.R. HAYSIP</u>	<u>8</u>	<u>W.R. MILLIS</u>	<u>8</u>		
B						
C						

Remarks: 077

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays--Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY
 Contracting Division
 General Office
 Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 24 1985 Drill 34 skid drill / 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R. Hayslip

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	806-1	-3°		HA	213	244			31	31		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling	8			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				Water hauling		miles			loads	
- Setting				Core boxes:	HA	size/	3		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	HA	L83366			220'	
				first bit						
				in hole)						
Total Hours	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	8		
B						
C						

Remarks: _____

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 23 1985 Drill 34 skid drill 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°	Chert	HQ	181	213			32	32		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling	8						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#					
Rock Bit - Overburden				Other (Describe)						
Reaming (to)										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods				OTHER						
- Prep Hole & Grout				Water hauling		miles		loads		
- Setting				Core boxes:	HQ	size/	3	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	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	8		
B						
C						

Remarks: CFP

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 55411

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays--Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other: _____) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 21 19 85 Drill 34 skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°		HQ	146	181			15	35		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed								
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units		
Core Drilling	8			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				Water hauling		miles				loads		
- Setting				Core boxes:	HQ	size/	4			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	8											
Driller's Initials	JRH											

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYS LIP	8	W.R. MILLS	0		
B						
C						

Remarks: W.R. Mills had the flu - Brooks mng. furnished a helper
[Signature]

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 20 1985 Drill 34skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	806-1	-3°		HQ	108	146			38	38		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	8						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#				
Rock Bit - Overburden				Other (Describe)					
Reaming (to)				ROCK DRILL OIL 5 GAL					
Casing - Placing									
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods				OTHER					
- Prep Hole & Grout				Water hauling		miles			loads
- Setting				Core boxes:	40	size/	4		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	8								
Driller's Initials	JRH								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYS/JP	8	W.R. MILLS	8		
B						
C						

Remarks:

[Signature]

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

CLIENT

LONGYEAR COMPANY
Consulting Division
General Office
Minneapolis, Minnesota 55414
Budget No. 15-90182-011
Date 12-1-82
Job 1
TRUCK NO. DRILL NO.
DAILY DRILL REPORT

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12-19 1985 Drill 34 skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack B. Hayslip

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	806-1	-3°	Chart	HQ	90	108			18	18		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
							Number of Units			
Core Drilling	7			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				Mud	5 gal	EZ Mud				
Reaming (to)										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods										
- Prep Hole & Grout				OTHER						
- Setting				Water hauling		miles			loads	
- Drilling				Core boxes:	HQ	size/	2		no.	
Moving - Hole to Hole				Length of waterline:						
Rigging Up - Rigging Down				Lost tools: Description						
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) <u>Hauling Rods 1</u>				for Client		Hole #				
<u>Level to level AN hooking</u>				Longco		Hole #				
<u>9 1/2 Exhaust</u>				Bit changes:	Size	Serial #	Depth			
				(Include	HQ	68003	192'			
				first bit						
				in hole)						
Total Hours										
Driller's Initials										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	8		
B						
C						

Remarks: J.R.H.

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

CLIENT

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays--Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY -- LIST NEATLY -- LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 18 1985 Drill 34 skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack B. Hayslip

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	806-1	-3'	Chert 85-90	HG	55	85-90			35	35		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling	8			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				Water hauling		miles			loads	
- Setting				Core boxes:	HA	size/	3		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	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	10		
B						
C						

Remarks: Mills drove to the McCabe mine to pick up two used bits
J.R.H.

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

CLIENT

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 17 19 85 Drill 34skildrill/ 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz Foreman's Signature: Jack R Hayslip

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	806-1	3°		HO	0 15	55			40	40		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling	8			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				Water hauling		miles			loads	
- Setting				Core boxes:	HO	size/	5		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	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYS/HP	8	W.R. MILLS	8		
B						
C						

Remarks: [Signature]

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 16 1985 Drill 34pkid drill 704 1
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's 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	806-1	-3°		Hg	0	15			15	13		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
Core Drilling	3			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				Water hauling		miles				loads	
- Setting				Core boxes:	Hg	size/	1			no.	
- Drilling				Length of waterline:							
Moving - Hole to Hole				Lost tools: Description							
Rigging Up - Rigging Down	5										
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	Hg	L90839				3	
				first bit							
				in hole)							
Total Hours	8										
Driller's Initials	JRK										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: _____

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 12 14 19 85 Drill 3 1/2" skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz Foreman's Signature: Jack R Hayslip

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												
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								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>J.R. HAYS/SLIP</u>		<u>W.R. MILLS</u>			
B						
C						

Remarks: Setting up. Put in Air & water line

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

DATE: 12/18/81
MONTH: 12
DAY: 18

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other: _____) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. #1 Date: 12 13 1985 Drill 34 skid drill 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R. Hayslip

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			Making setting up									
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling				Portland			Number of Units			
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	8			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	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: Moved MACHINE TO 8 LOMB LEVEL BUILT PLATFORM TO 3011 010

[Signature]

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

CLIENT

LONGYEAR COMPANY
General Office
Minneapolis, Minnesota 55412
Budget No. 1-12-1
Job No. 1000
Location
Date

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G.#1 Date: 12 12 19 85 Drill 34 skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: J.R. Hayslip

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>Moving</u>									
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				OTHER					
- Prep Hole & Grout				Water hauling		miles			loads
- Setting				Core boxes:		size/			no.
- Drilling				Length of waterline: _____					
Moving - Hole to Hole	<u>8</u>			Lost tools: Description _____					
Rigging Up - Rigging Down				Lost bits: Size _____ Serial no. _____					
Mix Mud				Depth: _____ ft. Hole # _____					
Condition Hole, Lost Circulation				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 _____					
				first bit _____					
				in hole) _____					

Total Hours	<u>8</u>								
Driller's Initials	<u>JRH</u>								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>J.R. HAYSIP</u>	<u>8</u>	<u>W.R. MILLS</u>	<u>8</u>		
B						
C						

Remarks: Moved TIMBOR AN BOARDS up to 8 AN helped MINERS WORK ON DRILL STATION

JRH

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

TRUCK NO. DRILL NO. 1
Budget No. 1204
Date 12/15/82
Location Arizona

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

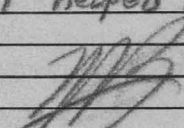
"DAILY DRILL REPORT"

Contract: Budge U.G #1 Date: 12 11 1985 Drill 34 skid drill 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.
 Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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>Moving to 3 Level</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				Mud	50#						
Handling Rod (bit)				Mud	100#						
Rock Bit - Overburden				Other (Describe)							
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		<u>8</u>		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		<u>8</u>									
Driller's Initials		<u>JRH</u>									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>J.R. HAYSIP</u>	<u>8</u>	<u>W.R. MILLS</u>	<u>8</u>		
B						
C						

Remarks: Moved drill out to shaft helped miners on new drill site on 8 level


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

LONGYEAR COMPANY
Geophysical Division
DAILY DRILL REPORT

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays--Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

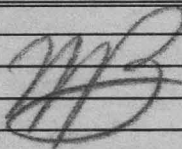
Contract: Budge U.G. #1 Date: 12 10 19 85 Drill 34 skid drill / 704 /
MONTH DAY YEAR TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R. Hayslip

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	901-3	18	Moving									
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	1										
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	7			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	8										
Driller's Initials	JR/16										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: 

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
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- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. #1 Date: 12 9 1985 Drill 34 pld drill / 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. 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	901-3	-15°	End of Hole	NA	349	364			15	12		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
							Number of Units			
Core Drilling	3			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)						
Pulling Rod	1			SALT	50	POT. CLORIDE				
Rock Bit - Overburden				Mud	50	BAUR GUM				
Reaming (to)										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods										
- 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	1			Depth:		ft. Hole #				
Mobilization/Demobilization				Casing lost or left in hole: Size		ft.				
Other (Explain)				for Client		Hole #				
Moving Rods	3			Longco		Hole #				
Rigging up to pull casing				Bit changes:	Size	Serial #	Depth			
				(Include						
				first bit						
				in hole)						
Total Hours	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYS TIP	8	W.R. MILLS	8		
B						
C						

Remarks: [Signature]

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays--Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other: _____) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. #1 Date: 12 6 19 85 Drill 34skid drill / 704 /
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	901-3	18"	Chert	NG	316	349			33	31		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
Core Drilling	5			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	5										
Driller's Initials	JRH										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	05	W.R. MILLS	05		
B						
C						

Remarks: _____

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

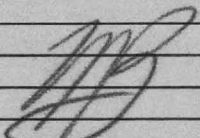
Contract: Budge U.G. #1 Date: 12 5 19 85 Drill 34skid drill / 704 /
 MONTH DAY YEAR TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	401-3	+18°	CHERT	NG	296	316			20	16		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
							Number of Units			
Core Drilling	6			Portland						
Handling Rod (change bit)	1			Lumnite						
Overburden - rock bit				Calseal						
Collaring Hole - Dia. bit				Mud	50#					
Rotary Drilling				Mud	100#					
Handling Rod (bit)				Other (Describe)						
Rock Bit - Overburden				OIL		5 gal Rock Drill				
Reaming (to)										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods										
- Prep Hole & Grout				Water hauling		miles			loads	
- Setting				Core boxes:	NG	size/	2		no.	
- Drilling				Length of waterline:						
Moving - Hole to Hole				Lost tools: Description					10	
Rigging Up - Rigging Down										
Mix Mud				Lost bits: Size		Serial no.				
Condition Hole, Lost Circulation				Depth:		ft. Hole #				
Surveying, Inclination Test				Casing lost or left in hole: Size		ft.				
Mobilization/Demobilization				for Client		Hole #				
Other (Explain)				Longco		Hole #				
				Bit changes:	Size	Serial #	Depth			
				(Include	NG	L87995	301'			
				first bit						
				in hole)	NG	L8256	311'			
Total Hours	8									
Driller's Initials	JRH									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. MILLIS	8		
B						
C						

Remarks: 

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INSTRUCTIONS

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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
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- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:**
Other:) List appropriately.
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

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LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. #1 Date: 12 4 19 85 Drill 34" bit drill 7041
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	901-3	-18°	Chart	NG	291	296			5	5		
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)	3			Portland							
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)	1			Mud	59AL	EZ Mud					
Casing - Placing	2										
- Pulling											
Delays - Client Acct.											
Cementing - Handling Rods				OTHER							
- Prep Hole & Grout				Water hauling		miles				loads	
- Setting				Core boxes:	1	size/	NG			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) <u>Moving</u>	2			for Client		Hole #					
<u>Rods From 11 days</u>				Longco		Hole #					
<u>Site to Station</u>				Bit changes:	Size	Serial #	Depth				
<u>AN up to 9 1/2</u>				(Include	NG	L90425	291			ROAMOR	
				first bit							
				in hole)	NG	L94427	291			BIT	
Total Hours	8										
Driller's Initials	JRH										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	8		
B						
C						

Remarks: [Signature]

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
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- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)**
Other:) List appropriately.
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LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

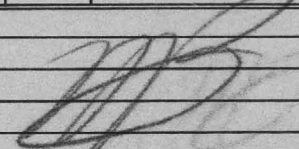
Contract: Budge U.G. #1 Date: 12 3 19 85 Drill 34 skid drill 704 /

Location: Jerome, Ariz. Foreman's Signature: Jack R Hayslip

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	901-3	18"	Chert	HA	280	291			11	11		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
Core Drilling	6			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	1										
- Pulling											
Delays - Client Acct.											
Cementing - Handling Rods											
- Prep Hole & Grout				Water hauling		miles				loads	
- Setting				Core boxes:	HA	size/	1			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>Moving Rods From</u>				Longco		Hole #					
<u>DRILL SITE TO SHAFT ON 11 level</u>				Bit changes: Size		Serial #				Depth	
				(Include							
				first bit							
				in hole)							
Total Hours	8										
Driller's Initials	JRH										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. HAYSIP	8	W.R. Mills	8		
B						
C						

Remarks: 

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- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
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"DAILY DRILL REPORT"

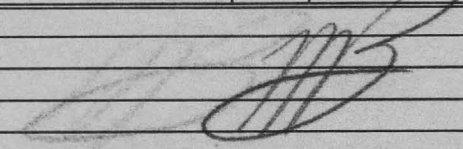
Contract: Budge U.G. #1 Date: 12 2 19 85 Drill 34 skid drill 704 /
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jetome, Ariz. Foreman's Signature: Jack R Hayslip

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	901-3	+18	Chert 274280	HQ	260	280			20	20		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling	7			Portland					
Handling Rod (change bit)	1			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				Water hauling		miles			loads
- Setting				Core boxes:	2	size/	HQ		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	HQ	L87417			275'
				first bit					
				in hole)	HQ	L90837			280'
Total Hours	8								
Driller's Initials	JRH								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.R. Hayslip	8	W.R. Mills	8		
B						
C						

Remarks: 

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

INSTRUCTIONS

- a. **CORE DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, mismatch, stuck tube, etc. This will also include last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
Overburden-Rock Bit: Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.
- b. **ROTARY DRILLING:** Show all time actually spent in drilling activity except time spent handling rods and changing bit.
Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.
Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.
- c. **Reaming:** Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. **Casing:** Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. **Delays—Client Acct.:** Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
- g. **Moving:** This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
- h. **Rigging Up/Down:** Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. **Mix Mud, etc.:** Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. **Conditioning Hole:** Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
- l. **Mobilization and Demobilization:** List time spent hauling equipment to area and unloading at site. For demobilizing, list time spent loading at site and transporting back to storage. Do Not confuse with rigging operations listed under "f" above.
- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. **Supplies consumed:)** List appropriately.
Other:)
- o. Time listed in the hourly distribution column must equal the total hours listed for wage payment.

THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!

