

LONGYEAR COMPANY  
Contracting Division  
General Office  
Minneapolis, Minnesota 55414

DATE: DAY MONTH YEAR  
DRILL NO. TRUCK NO. 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.

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**LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!**

**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge # Date: 11-9 19 85 Drill LM-37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: Pat J Schroeder

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	901-2	20°		NQWL	363	393			30	27		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
Core Drilling	6										
Handling Rod (change bit)	mis latch 2										
Overburden - rock bit				Portland							
Collaring Hole - Dia. bit				Lumnite							
Rotary Drilling				Calseal							
Handling Rod (bit)				Mud	50#						
				Mud	100#						
Rock Bit - Overburden				Other (Describe)							
Reaming ( to )				EZ mud	5 gal						
Casing - Placing											
- Pulling											
Delays - Client Acct.											
Cementing - Handling Rods				<b>OTHER</b>							
- 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 #					
				Bit changes: Size		Serial #				Depth	
				(Include							
				first bit							
				in hole)							
Total Hours	8										
Driller's Initials	PS										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Short runs & clay  
677

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

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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge #2 Date: 11-8-85 Drill LM-37 / 1006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Serome Foreman's Signature: Pat J. Schroeder

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	701-2	20°		NQWL	337	363			26	22		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling	5									
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)										
Chuck Repair	3									
Total Hours	8									
Driller's Initials										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Short runs & clay, 3 orings keep blowing out in back of Chuck  
677

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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

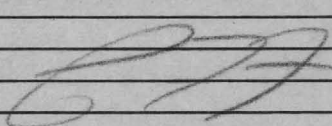
"DAILY DRILL REPORT"

Contract: Budge # 2 Date: 11 - 7 1985 Drill LM-37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Seymour Foreman's Signature: P.L. Schroeder

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	901-2	20°			314	337			23	20		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
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	①										
Surveying, Inclination Test											
Mobilization/Demobilization											
Other (Explain)											
Chuck repair	3										
Total Hours	8										
Driller's Initials											

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	P.L. Schroeder	8		
B						
C						

Remarks: 

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LONGYEAR COMPANY  
Construction Division  
General Office  
Minneapolis, Minnesota 55414

Contract No. \_\_\_\_\_ Date \_\_\_\_\_  
TRUCK NO. \_\_\_\_\_ DRILL NO. \_\_\_\_\_ TYPE \_\_\_\_\_ DAY \_\_\_\_\_ MONTH \_\_\_\_\_

### INSTRUCTIONS

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- m. **Other (Explain):** List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
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# LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge #2 Date: 11 - 6 1985 Drill LM-37 / 006 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Serane Foreman's Signature: Pat L. Schneider

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	901-2	20°		NQDL	292	314			22	21		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed							
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units	
Core Drilling	4			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				EZ mud	5 gal			1			
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)											
Repair Chuck Twice	3										
Total Hours	8										
Driller's Initials	PLS										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schneider	8	S. Rosenberg	8		
B						
C						

Remarks: \_\_\_\_\_

627

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LONGYEAR COMPANY  
Contract Division  
General Office  
Minneapolis, Minnesota 55414

DATE: 11-3-11  
MONTH: NOV  
DAY: 3  
YEAR: 2011

TRUCK NO. DRILL NO. LOCATION

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 Minneapolis, Minnesota 55414

**"DAILY DRILL REPORT"**

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 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: P.L. Schroeder

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	901-2	20°		NQWL	216	260			44	37		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
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				EZ Mud	5 gal		1			
Reaming ( to )										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods				<b>OTHER</b>						
- 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	①			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						
				first bit						
				in hole)						
Total Hours	8									
Driller's Initials	P.L.									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Short runs & clay

*[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

Date: \_\_\_\_\_  
Contract: \_\_\_\_\_  
Location: \_\_\_\_\_

TRUCK NO. \_\_\_\_\_  
DRILL NO. \_\_\_\_\_  
TYPE \_\_\_\_\_  
FORMER'S SIGNATURE \_\_\_\_\_

### 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.
- 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 # 2 Date: 11 2 19 85 Drill LM-37 / 006 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome Foreman's Signature: Pat J. Schroeder

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	901-2	70°		NRWL	171	216			45	42		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
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				E2 Mud	5 gal		1			
Reaming ( to )										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods				<b>OTHER</b>						
- 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 #				
Safety meeting	1			Bit changes:	Size	Serial #	Depth			
				(Include	NRWL					
				first bit						
				in hole)						
Total Hours	8									
Driller's Initials	PLS									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J. Rosenberg	8		
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.  
**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!**





## 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 #2 Date: 10 - 31 19 85 Drill LM-37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Serome Foreman's Signature: P.L. Schwarder

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	901-2	90°		HQWL	65	113			48	44		
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)				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)										
Equipment Repair	3									
Total Hours	8									
Driller's Initials	P.L.									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schwarder	8	J. Rosenberg	8		
B						
C						

Remarks: Found problem with drill, There was a blockage in manatold Hyd.  
P.L.

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

LONGYEAR COMPANY  
General Office  
Minneapolis, Minnesota 55414

DATE: \_\_\_\_\_ MONTH: \_\_\_\_\_ DAY: \_\_\_\_\_  
TRUCK NO. \_\_\_\_\_ DRILL NO. \_\_\_\_\_ TYPE \_\_\_\_\_

### 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

DATE: MONTH DAY YEAR  
DRIILL NO. TRUCK NO. CONTROL

### 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: Budage #2 Date: 10-29 1985 Drill LM-37 1006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: P. L. Schroeder

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	901-2	90°		4 1/2"	0	4			4	3	1 1/2"	4
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)				Lumnite						
Overburden - rock bit				Calseal	100#		1			
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				<b>OTHER</b>						
- Prep Hole & Grout	①			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 #				
Equipment Repair	4			Bit changes: Size		Serial #		Depth		
				(Include						
				first bit						
				in hole)						
Total Hours	8									
Driller's Initials										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P. L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Cemented casing in  
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 55414  
Date: 10-2-81  
Drill No. 10-2-81  
TRUCK NO. DRILL NO. TYPE

### 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  
Consulting Division  
General Office  
Minneapolis, Minnesota 55414

Date: 12 28 1962  
DAY MONTH YEAR

TRUCK NO. DRILL NO. TYPE

### 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!**



## 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.  
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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.
- 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 #2 Date: 10-25 1985 Drill LM-37 / 006 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome Foreman's Signature: P. L. Schroeder

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)							
				Equipment Repair							
				Total Hours							
				Driller's Initials							

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P. L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Rig not operating properly

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 55412

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!**



### 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.
- 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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- 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: Badge #2 Date: 10 23 1985 Drill LM-37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: P.L. Schroeder

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	901-1	-110		8W-44	359	360			1	1		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed								
				Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
				Number of Units								
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							EZ mud	5 gal		1		
Reaming ( to )												
Casing - Placing												
- Pulling												
Delays - Client Acct.												
Cementing - Handling Rods							<b>OTHER</b>					
- 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				5			Lost bits: Size		Serial no.			
Surveying, Inclination Test				2			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				P.L.								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Conditioning - Reaming in and out of Hole Try to get to bottom

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.

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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge #2 Date: 10 MONTH 22 DAY 19 85 Drill LM-37 / 006 / TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: P.L. Schroeder

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	901-1	11°		BW-44	356	359			3	3		
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				EZ mud	5 gal		1			
Reaming ( to )										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods				<b>OTHER</b>						
- Prep Hole & Grout				Water hauling		miles			loads	
- Setting				Core boxes:		size/			no.	
- Drilling	3			Length of waterline:						
Moving - Hole to Hole				Lost tools: Description						
Rigging Up - Rigging Down										
Mix Mud										
Condition Hole, Lost Circulation			4	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	P.L.S.									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Cond. Training - Reaming to bottom trying to clean up hole

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.

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**LIST ACCURATELY – LIST NEATLY – LIST LEGIBLY!**

**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Badge # 2 Date: 10 21 19 85 Drill LM-37 1006 / 1  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome 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												
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				<b>OTHER</b>					
- Prep Hole & Grout				Water hauling	miles	loads			
- Setting				Core boxes:	size/	no.			
- Drilling <u>packer</u>				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 #			
				(Include					
				first bit					
				in hole)					
Total Hours									
Driller's Initials									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>P.L. Schroeder</u>	<u>8</u>	<u>J. Rosenberg</u>	<u>8</u>		
B						
C						

Remarks: Started drilling cement at 313 to 339  
[Signature]

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

LONGYEAR COMPANY  
Corporate Division  
General Office  
Minneapolis, Minnesota 55402

Contract No. \_\_\_\_\_ Date \_\_\_\_\_  
MOUTH OF DAY \_\_\_\_\_  
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 #2 Date: 10 - 19 1985 Drill LM 37 / 1006 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jecome Foreman's Signature: Paul Schroeder

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	901-1	-11°										
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.											
<u>Cement Testing</u>											
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				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							
				first bit							
				in hole)							
Total Hours											
Driller's Initials											

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	PL Schroeder	8	J Rosenberg	8		
B						
C						

Remarks: Rods stuck in cement, had to get chain hoist to get them loose

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.  
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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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- 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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- f. **Cementing Activity:** Time spent performing this activity should be properly listed in appropriate category.
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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:** )  
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: Badge 2 Date: 10-18 1985 Drill LM-37 / 006 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Sevone 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	901-1	11°		RDWL								
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				<b>OTHER</b>					
- 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	P.L. Schroeder	8	J. Rosenberg	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.  
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- 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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- 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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- 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!



**INSTRUCTIONS**

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- n. **Supplies Consumed:** ) List appropriately.  
Other: )
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**LIST ACCURATELY — LIST NEATLY — LIST LEGIBLY!**

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

**"DAILY DRILL REPORT"**

Contract: Budge #2 Date: 10 - 16 19 85 Drill LM-37 / 006 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Serome Foreman's Signature: Paul J. Schwarder

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											
- Prep Hole & Grout				Water hauling		miles				loads	
- Setting				Core boxes:		size/				no.	
- Drilling <i>packer</i>			<b>4</b>	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 #					
<i>Maintenance</i>			<b>4</b>	Bit changes: Size		Serial #				Depth	
				(Include							
				first bit							
				in hole)							
Total Hours			<b>8</b>								
Driller's Initials			<b>PSJ</b>								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<i>Paul Schwarder</i>	<b>8</b>	<i>J. Rosenbaum</i>	<b>8</b>		
B						
C						

Remarks: Maintenance - changed gears in Head

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

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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:)** 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: Badge # 2 Date: 10-15 1985 Drill LM-37 / 1006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Sevaine 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				RW44		355						
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				<b>OTHER</b>							
- Prep Hole & Grout				Water hauling	miles					loads	
- Setting				Core boxes:	size/					no.	
- Drilling <u>pick</u>				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	
<u>equipment repair</u>				(Include							
				first bit							
				in hole)							
Total Hours											
Driller's Initials											

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>P.I. Schaefer</u>		<u>J. Rosenberg</u>			
B						
C						

Remarks: Very little cement in Hole, no solid cement core

[Signature]

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

### INSTRUCTIONS

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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!**





## 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.

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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge #2 Date: 10-12 19 85 Drill LM-37 / 1006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: P.L. Schroeder

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	901-1	11°		AW44		355						
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Core Drilling							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 )				Calseal	100#	12500		3	
Casing - Placing				BR packer				1	
- 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 #			
				Bit changes: Size		Serial #			
				(Include					
				first bit					
				in hole)					
Total Hours		8							
Driller's Initials		P.L.S.							

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder		J. Rosenberg			
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.  
**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 #3 Date: 10-11 1985 Drill LM-37 1006 / 1  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome 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	901-1	-10°		BW-44	351	355			4	4		
Aft B												
Nite C												

Hourly Distribution			Supplies Consumed			
Day	Aft.	Nite	Product	Day	Aft.	Nite
Core Drilling	3		Description	Number of Units		
Handling Rod (change bit)			Size			
Overburden - rock bit			Name			
Collaring Hole - Dia. bit			Portland			
Rotary Drilling			Lumnite			
Handling Rod (bit)			Calseal			
			Mud 50#			
			Mud 100#			
Rock Bit - Overburden			Other (Describe)			
Reaming ( to )			<u>FZ mud Spl</u>		1	
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	4		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>Setting up BW-44 barrel</u>			Longco			Hole #
			Bit changes: Size			Serial #
			(Include			Depth
			first bit			
			in hole)			
Total Hours	8					
Driller's Initials	<u>[Signature]</u>					

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>P.L. Schreuder</u>	<u>8</u>	<u>J. Rosenberg</u>	<u>8</u>		
B						
C						

Remarks: Hole cased in at 352' never did get back to bottom after 4 runs

677

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### 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.
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- 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.
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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.
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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge #2 Date: 10 - 9 1985 Drill LM-37 1006 / 1  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: Pat J. Schrod

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	901-1	-11°		BQWL	334	341			7	7		
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)									
working on pumpin equipment	2								
Total Hours	8								
Driller's Initials									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schrodner	8	J. Rosenberg	8		
B						
C						

Remarks: pumped grease into hole to hold case  
177

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## 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.
- 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.
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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge #2 Date: 10-8 1985 Drill LM-37 1606 / 1  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Tecoma Foreman's Signature: Robert J. Schaefer

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	901-1	11°			334							
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
Core Drilling	Day	Aft.	Nite	Description	Product Size	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 (329 to 334)	②								
Casing - Placing	②								
- Pulling									
Delays - Client Acct.	②								
<u>reduce</u>									
Cementing - Handling Rods				<b>OTHER</b>					
- 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				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			
<u>Shipping rats</u>	②			(Include					
				first bit					
				in hole)					
Total Hours	8								
Driller's Initials	<u>RJS</u>								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>R.L. Schaefer</u>	<u>8</u>	<u>J. Rosenberg</u>	<u>8</u>		
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.  
**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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- 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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- n. **Supplies Consumed:** )  
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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge #2 Date: 10-7 1985 Drill LM-37 1006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome 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	901-1	-11°		AQWL	332	332			2	2		
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				EZ mud	5gal		1		
Reaming ( to )									
Casing - Placing									
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods				<b>OTHER</b>					
- 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	3			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 #			
went to mayer for casing	2			Longco		Hole #			
				Bit changes: Size		Serial #			Depth
				(Include	AQWL				332
				first bit					
				in hole)					
Total Hours									
Driller's Initials									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder		J. Rosenberg	6		
B						
C						

Remarks: Had 1 foot of gravel & 1 foot of good rock, (Conditioning Hole) redrill 1 foot of cave, but it keep caving in on Rod and stopping then from turning.

[Signature]

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

INSTRUCTIONS

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

**"DAILY DRILL REPORT"**

Contract: Budge II 2 Date: 10 - 5 19 8 Drill LM-37 / 006 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome Foreman's Signature: P.L. Schroeder

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	901-1	-11°		NQML		332						
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling										
Handling Rod (change bit)										
Overburden - rock bit				Portland						
Collaring Hole - Dia. bit				Lumnite						
Rotary Drilling				Calseal						
Handling Rod (bit)				Mud	50#					
				Mud	100#					
Rock Bit - Overburden				Other (Describe)						
Reaming ( to )				E2 mud	5 gal		1			
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods										
- Prep Hole & Grout				Water hauling		miles			loads	
- Setting				Core boxes:		size/			no.	
packer - 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	P.L.									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: pulled rods 5 times to clean bit. got through packer to bottom of hole. hole is clean!

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

Contract: \_\_\_\_\_  
Location: \_\_\_\_\_

TRUCK NO. \_\_\_\_\_ DRILL NO. \_\_\_\_\_ TYPE \_\_\_\_\_ DAY \_\_\_\_\_ MONTH \_\_\_\_\_ YEAR \_\_\_\_\_

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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge #2 Date: 9-28 1985 Drill LM37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: Pat J. Schroeder

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	90-1	11°		NQWL								
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											
- 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>Look Remarks</u>				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>P.L. Schroeder</u>	<u>8</u>	<u>J. Rosenberg</u>	<u>4</u>		
B						
C						

Remarks: Went to Phoenix to find packer, had to get one from Spokane by air 5:30 that night. Scrapped packer and picked up other parts for cementing an up hole.  
J. Rosenberg worked at mine, took 320 ft 82 rods to the drill & got them ready to go in Monday morning

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 #2 Date: 9-27 1985 Drill LM37 / 1006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: Pat L Schroeder

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	901-1	11°		A1902	331	332			1	2		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
Core Drilling	2						Number of Units			
Handling Rod (change bit)	1			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:		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	P.L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Trying to get through fault before cementing hole, cannot do  
PLS

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.

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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge #2 Date: 9-26 1985 Drill LM37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: P.L. Schroeder

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	901-1	+11°		NQWL	329	331			2	3		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed								
	Day	Aft.	Nite	Product			Day	Aft.	Nite	Number of Units		
				Description	Size	Name						
Core Drilling	2			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				EZ Mud	Sgab				1			
Reaming ( to )												
Casing - Placing												
- Pulling												
Delays - Client Acct.												
Cementing - Handling Rods				<b>OTHER</b>								
- 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			5	Depth:		ft. Hole #						
Surveying, Inclination Test				Casing lost or left in hole: Size		ft.						
Mobilization/Demobilization				for Client		Hole #						
Other (Explain)				Longco		Hole #						
wireline		1		Bit changes:	Size	Serial #	Depth					
				(Include	NQWL	L90693	330					
				first bit								
				in hole)								
Total Hours												
Driller's Initials												

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Conditioning; greasing Rods & redrilling from 328 To 331. Have Pulled out 3ft. of gravel for 2ft of Hole

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: 10/25/83  
WELL NO. 1000  
TRUCK NO. 1000

### 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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- 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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# LONGYEAR COMPANY

Contracting Division

General Office

Minneapolis, Minnesota 55414

**"DAILY DRILL REPORT"**

Contract: Budge # Date: 9-25 1985 Drill LM 37 / 1006 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome 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	701-1	+11°		NW2	313	329			16	13		
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)	1			Lumnite					
Overburden - rock bit				Calseal					
Collaring Hole - Dia. bit				Mud	50#				
Rotary Drilling				Mud	100#				
Handling Rod (bit)				Other (Describe)					
Rock Bit - Overburden				EZ mud	5gal		1		
Reaming ( to )									
Casing - Placing									
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods				<b>OTHER</b>					
- 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			④	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	P.L. Schroeder	8	J. Rosenbury	8		
B						
C						

Remarks: Conditioning; greasing rods and Redrilling Between 328 To 329  
[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 #2 Date: 9-24 1985 Drill LM37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome Foreman's Signature: P.L. Schorder

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	901-1	+11°		NRWL	285	313			28	240		
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				EZ Mud	5gal		1				
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				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							
				first bit							
				in hole)							
Total Hours	8										
Driller's Initials											

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P. L. Schorder	8	J. Rosenberg	8		
B						
C						

Remarks: Condition Hole, grease prod (P.L.)  
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.
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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.

**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 #2 Date: 9-23 1985 Drill LM37 / 006 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Jerome Foreman's Signature: P.L. Schroeder

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	701-1	+11°		NQML	259	285			26	22		
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)	2			Lumnite						
Overburden - rock bit				Calseal						
Collaring Hole - Dia. bit				Mud	50#					
Rotary Drilling				Mud	100#					
Handling Rod (bit)				Other (Describe)						
Rock Bit - Overburden				EZ mud	5 gal		1			
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)										
Shipe Rods	①									
Total Hours	8									
Driller's Initials	P.L.S.									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J. Rosenberg	8		
B						
C						

Remarks: Took 5' rods off and put on 220' 10' rods (P.L.S.)

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 #2 Date: 9-21 1985 Drill Lm 37 / 1006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome, Arizona Foreman's Signature: Jay Schroeder

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	901-1	+11°		DQWL	218	259			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				E-2 Mud	5gal	Beroid	1				
Reaming ( to )											
Casing - Placing											
- Pulling											
Delays - Client Acct.											
Cementing - Handling Rods				<b>OTHER</b>							
- 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	8										
Driller's Initials	PLS										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	P.L. Schroeder	8	J.C. Rosenberg	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.

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

"DAILY DRILL REPORT"

Contract: Budge # 2 Date: 9-20 1985 Drill Lm 37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Freone, Arizona Foreman's Signature: Jerry Schroeder

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	901-1	110°		NQWL	175	218			43	43		
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				EZ-mud	5gal	Baroid	1		
Reaming ( to )									
Casing - Placing									
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods				<b>OTHER</b>					
- 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	NQWL	L8895D	at	218'	
				first bit					
				in hole)					
Total Hours	B								
Driller's Initials	JLS								

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.L. Schroeder	B	J.C. Rosenberg	B		
B						
C	P.L. Schroeder	B				

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 c- Drove Co PU From Flagstaff to Phoenix - Shop #10 Sub 8 hrs

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.
- 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 # 2 Date: 9-19 1985 Drill Lm 37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome, Arizona Foreman's Signature: Jerry Schrodner

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	901-1	11°		DQWL	130	175			45	45		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed						
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	
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				EZ mud	394	Bovoid	1			
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)	2			Repair Hyd						
				chuck						
Total Hours	8									
Driller's Initials	JLS									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.L. Schroeder	8	J.L. Rosenberg	8		
B						
C	P.L. Schroeder	13				

Remarks: Salt Lake City to Flagstaff 13 hrs  
3 hr SIC Shop

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

LONGYEAR COMPANY  
Coring Division  
General Office  
Minneapolis, Minnesota 55414

DATE: 1-18-1964  
TRUCK NO. 1004  
DRILL NO. 1004

### 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 #2 Date: 9-18 1985 Drill Lm37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Jerome, Arizona Foreman's Signature: Jerry Schroeder

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	9041	+11°		NQWL	95	130			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	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				EZ Mud	1 gal	Boreid	1				
Reaming ( to )											
Casing - Placing											
- Pulling											
Delays - Client Acct.											
Cementing - Handling Rods				<b>OTHER</b>							
- 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) <u>Repair</u>	2			Longco		Hole #					
				Bit changes: Size		Serial #				Depth	
				(Include							
				first bit							
				in hole)							
Total Hours	8										
Driller's Initials	JHS										

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.L. Schroeder	8	J.L. Rosenberg	8		
B						
C	P.H. Schroeder	6				

Remarks: Jerome, AZ to STC Utah

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: 9-18-83  
MONTH: SEP  
DAY: 18  
YEAR: 1983

TRUCK NO. DRILL NO. TYPE

### 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 #2 Date: 9-17 1985 Drill LM37 1006 / 1  
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Keams, Arizona 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	901-1	11°		NOWL	10	95			85	85		
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				82 mud	5 gal	BERVID	1			
Reaming ( to )										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
Cementing - Handling Rods				<b>OTHER</b>						
- 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	8									
Driller's Initials	JLS									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.h. Schaefer	8	J.C. Rosenberg	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.**

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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge # 2 Date: 9-16 19 85 Drill LM 37 1006 / 1  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Troxme, Arizona Foreman's Signature: Jerry Schroeder

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	901-1	110°		MQWL MQWL	0	5			5	5		
					5	10			5	5		
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)				Lumnite						
Overburden - rock bit				Calseal						
Collaring Hole - Dia. bit				Mud	50#					
Rotary Drilling				Mud	100#					
Handling Rod (bit)				Other (Describe)						
Rock Bit - Overburden				<u>Electric</u>						
Reaming ( to )										
Casing - Placing										
- Pulling										
Delays - Client Acct.										
<u>Electric</u>	(4)									
Cementing - Handling Rods										
- Prep Hole & Grout										
- Setting										
- Drilling										
Moving - Hole to Hole										
Rigging Up - Rigging Down	(2)									
Mix Mud										
Condition Hole, Lost Circulation										
Surveying, Inclination Test										
Mobilization/Demobilization										
Other (Explain) <u>Travel</u>	2									
Total Hours	8									
Driller's Initials	JLS									

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	T. Fisher	10	J.C. Rosenberg	8		
B	J.L. Schroeder	8				
C						

Remarks: T. Fisher Travel 2hrs

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 55412

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.

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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge # 2 Date: 9-13 19 85 Drill 4M37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.

Location: Trauma, Arizona 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												
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed					
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
Handling Rod (change bit)				Portland			Number of Units		
Overburden - rock bit				Lumnite					
Collaring Hole - Dia. bit				Calseal					
Rotary Drilling				Mud	50#				
Handling Rod (bit)				Mud	100#				
Rock Bit - Overburden				Other (Describe)					
Reaming ( to )									
Casing - Placing									
- Pulling									
Delays - Client Acct.									
Cementing - Handling Rods									
- Prep Hole & Grout				Water hauling		miles			loads
- Setting				Core boxes:		size/			no.
- Drilling				Length of waterline:					
Moving - Hole to Hole				Lost tools: Description					
Rigging Up - Rigging Down	⑧	⑤	1 Mand						
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	5							
Driller's Initials	JLS	TF							

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	J.L. Schroeder	8	K. McCabe	8		
B	T. Fisher	5				
C						

Remarks: No Electricity [Signature]

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

## INSTRUCTIONS

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

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- n. **Supplies consumed:)** List appropriately.  
Other: )
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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge # 2 Date: 9-11 19 85 Drill LM37 / 006 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.  
 Location: Tuome, Arizona Foreman's Signature: Jerry Howard

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					
Core Drilling	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite
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									
- 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		5		Casing lost or left in hole: Size		ft.			
Other (Explain) <u>equip</u>		3		for Client		Hole #			
				Longco		Hole #			
				Bit changes: Size		Serial #			Depth
				(Include					
				first bit					
				in hole)					
Total Hours		8							
Driller's Initials		JHS							

Shift	DRILLERS	Hrs.	HELPERS	Hrs.	TRUCK DRIVERS	Hrs.
A	<u>J.H. Schaefer</u>	<u>8</u>	<u>T. Fisher</u>	<u>8</u>		
B						
C						

Remarks: unhooked equip checked out station - mine not ready for drill worked on equip.

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: 10/15/11  
WELL NO: 1012  
TRUCK NO: 1012  
DRILL NO: 1012  
TYPE: 1012  
MONTH: 10  
DAY: 15  
YEAR: 2011

### 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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- 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"

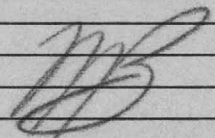
Contract: Budge U.G. #1 Date: 11-27 1985 Drill 34skid drill / 704 /  
MONTH DAY TYPE DRILL NO. TRUCK NO.

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	901-3	+18		HA	230	260			30	30		
Aft B												
Nite C												

Hourly Distribution				Supplies Consumed								
	Day	Aft.	Nite	Description	Size	Product Name	Day	Aft.	Nite	Number of Units		
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:		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	HA	L83409	2351					
				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.

## 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"

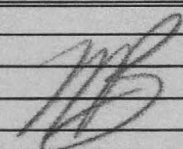
Contract: Budge 4.6+1 Date: 11 26 1985 Drill 34skid drill / 704 /  
 MONTH DAY TYPE DRILL NO. TRUCK NO.

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	901-3	118°		HG	190	230			40	40		
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				Mud	5 gal	EZ Mud	1				
Reaming ( to )											
Casing - Placing											
- Pulling											
Delays - Client Acct.											
Cementing - Handling Rods				<b>OTHER</b>							
- Prep Hole & Grout				Water hauling		miles				loads	
- Setting				Core boxes:	4	size/	40			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/1P	8	W.R. MILLS	8		
B						
C						

Remarks: 

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## 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.
- 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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**LONGYEAR COMPANY**

Contracting Division

General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

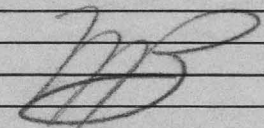
Contract: Budge U.G #1 Date: 11 25 85 Drill 34 skid drill 704 /  
 MONTH DAY 19 TYPE DRILL NO. TRUCK NO.

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	718		HQ	155	190			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	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											
Reaming ( to )											
Casing - Placing											
- Pulling											
Delays - Client Acct.											
Cementing - Handling Rods											
- Prep Hole & Grout				Water hauling		miles				loads	
- Setting				Core boxes:	NA	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 #					
<u>Moving Rods</u>	1			Longco		Hole #					
				Bit changes: Size		Serial #					
				(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: 

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

CLIENT

## 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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- k. **Surveying, Inclination Test:** Time spent surveying hole shall be shown. This shall include handling rods.
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- 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: 11-23 1985 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	H18		HQ	110	135			45	45		
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				<b>OTHER</b>							
- 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	J. R. HAYSIP	8	W. R. MILLS	8		
B						
C						

Remarks: CPA

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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- 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.
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**LONGYEAR COMPANY**

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General Office

Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U.G. Date: 11 22 1985 Drill 34 skid 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 Recovered	Size	Footage
					From	To	From	To				
Day A	901-3	118		HA	60	110			50	50		
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/	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. HAYSIP	8	W.R. MILLS	8		
B						
C						

Remarks: P77

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## INSTRUCTIONS

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**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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- 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!**