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Longyear Company

308 E. Pima Street Phoenix, AZ 85004

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

July 18, 1985

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

Dear Sir:

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

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

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

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

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

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

Sincerely

LONGYEAR COMPANY innen

Manager, Southwestern Zone Contract Drilling Division

RGB/sb c: D. Swayne Encl.



DRILLING PROPOSAL Submitted by: Longyear Co.

Ben F. Dickerson III	Date_July 18, 1985
7340 E. Shoeman Lane	Subject: Drilling Program Located Near -
Suite III "B" (E) Scottsdale, Arizona 85251	Jerome, Arizona
Attn: Mr. Ben Dickerson III	
Mobilization and Demobilization of personnel and equi	pment - per rig from and to portal.
a. Coring rig: Mobilization – \$_500.00	Demobilization – \$ <u>500.00</u>
b. Rotary rig: Mobilization - \$	Demobilization – \$
Overburden Drilling (or collaring hole)	
From (ft) To (ft) Rock	Bit Size Diamond Bit Size
Rotary Drilling	
From (ft)         To (ft)	Hole Size(s)
Diamond Core Drilling     2.5"       From (ft)     To (ft)     HQ       0     250     \$       0     500	1.875"       Core Size(s)         NQ       BQ         \$ 23.15       \$ 22.85       \$         23.15       \$ 22.85       \$

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Angle hole drilling .....

### LONGYEAR COMPANY DRILLING PROPOSAL

0:	Date_July 1	.8, 1985
	the second se	er Hour
. Rig Time ( man crew)	Rotary Rig	Core Rig
a. Cementing – hole preparation, grouting and drilling	\$	\$ 67.10
b. Hole stabilizing and/or plugging	\$	\$ 67.10
c. Installing and pulling casing	\$	\$ 67.10
d. Rigging up and down	\$	\$ 59.50
e. Moving between holes	\$	<u>\$ 59.50</u>
f. Drilling, reaming, casing, stabilizing, etc. (hourly contracts)	\$	\$
g. Re-entry and cleaning out old hole, plus cost of all bits and supplies	\$	\$
h. Installing and dismantling water lines	\$	\$59.50
i. Tractor service (or at Longyear's hired cost)	\$	\$N/A
j. Hole survey or inclination test . + rental . & related cost of instrument.	\$	\$ 59.50
k. Wedging operations, plus cost of wedge and wedge bits	\$	
I. Time spent moving equipment from portal into mine and out at end of project.	\$	\$ 59.50
m.	\$	
Standby or Delays	A	s 59.50
For the convenience or the responsibility of client $(\underline{2} $ man crew)	\$	\$ <u></u>
Casing and Casing Shoe (at Longyear List Price)		
a. Left in hole at client's request	100	_ %
b. Lost through normal drilling operations	100	_ %
B. Reaming XXXXXX will be invoiced at \$67.10 per hour plus	s bits.	
AT DEPTH to	to	to
tott\$t	- <u>\$</u>	
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July 18, 1985

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### LONGYEAR COMPANY DRILLING PROPOSAL

To:	•	Date July 1	8, 1985
9.	In hole materials Invoicable to Client (At Longyear FOB job cost plus_12	<u>    %)</u>	
	a. Drill mud	YesX	No
	b. Mud additives	YesX	No
	c. Hole stabilizing or plugging materials	YesX	No
	d. Cement	YesX	No
	e. Hole plugs	YesX	No
	f. Other Soluble oil	Yes <u>X</u>	
	Rod Grease	Yes X	
10.	Water Furnishing Charges		
	a. Water truck rental charge	\$	_per month
	b. Water truck mileage		_per mile
	c. Water truck driver (full time, if required)	\$	– Per hour
	d. Water, if purchased	At Longyear's c	ost
	e. Water line installation .and. dismantling	. \$_59.50	_Per hour
11.	Access Roads and Drill Sites will be Prepared and Maintained by:		
	() Client		
	() Longyear Co	@\$	_Per hour
12.	Core Boxes		
	HQsize	@\$_3.00	_each + freight
	NQ-BQ size	@ \$ <u>2.75</u>	_each + freight
13.	Footage Compensation (hourly contracts)	\$	per foot drilled
14.	Per Diem Charge To cover living allowances for crews.	\$	_ per man per day worked
15.	Bits and Setting Charges (at Longyear's list price)		
	a. Rotary or rock bits	Yes	No <u>X</u>
	b. Diamond bits and shells in excess of \$2.50 per foot, split 50/50.	YesX	No
16.	Other See cover letter.		

#### LONGYEAR COMPANY DRILLING PROPOSAL GENERAL SPECIFICATIONS

n	ticipated Requirements and Conditions
	One Drill(s); type Longyear LM-37
)	oneShift(s) per day (man crew @8hours per shift).
	6 Day(s) per week
	Minimum contract footage 4,000 ft.
	Number of holes <u>10+</u> .
	Maximum depth <u>400</u> ft.
•	Average depth 250 ft.
	Attitude of holes (from horizontal)
	1) Vertical
	2) Angle @ 6-20 degrees. up
	Average depth of overburden ft. Composition
	Size of hole or core size required: <u>HQ</u> , NQ, BQ
	Rock type to be drilled:

### 18. Insurance:

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

#### 19. Invoices

- a. Invoices covering the work performed will be prepared as promptly as possible after the fifteenth and last day of each month and payment shall be due upon receipt of invoice.
- b. Invoices arising from this project will be subject to all applicable state taxes (Sales, Use, Gross Receipts, Privilege, etc.)
- 21. This proposal together with its covering letter will constitute the terms and conditions of this working agreement. Your authorized signature in the space provided below will acknowledge your acceptance and will validate the agreement.

BV:

ACCEPTED:

Company\_\_\_\_\_

By\_\_\_

Date

Title\_\_\_\_\_

Manager, Southwestern Zone Contract Drilling Division

Day A       At	Location	B4do	me	. À.	hiz, Fo	мс oreman	's Sign	ature:	Jack Bi	Harp	lip	DR	IILL NO.	TR	UCK NO.
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A J.R. HAYSLIP 9 U.R. Mills 9	Shift	1	DRIL	LERS,	1	Hrs.		- HEI	PERS	or rop	Hrs.	TRU	CK DRIVE	RS	Hrs.
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	B C		- Andrews						A						

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.
- 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.

Location	Jeron	ne	, AI	G Da	reman's Sigi	DAY	Jock B	Hay	whip_	DF	ILL NO.		JCK NO.
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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.
- 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.

Shift         Hole No.         B         Material Drilled         Bit Size & Type         Form From         To         Feat         Total Casing Drilling         Drilling on the second overred         Drilling on the second transform         Drilling on the second transton test         Drilling on the second trans	Contrac Locatio	t: <u>B4</u> n: Jero	me	-, A	<u>ríz.</u> F	ate: oreman	олтн 's Sign	DAY 1 ature:	9 Drill lack R7	baydy	TYPE	DR	ILL NO.	TR	UCK NO.
Day     Dist     Dist     Dist     Dist     Dist     Dist     Dist     Dist     Dist       A <th></th> <th></th> <th>e</th> <th>क्रांची राग की</th> <th><del>ultransel de 106</del> Frankrivenisen</th> <th>Di</th> <th>+ Cizo</th> <th>e access colle apr</th> <th></th> <th>and the second se</th> <th></th> <th></th> <th>and the second s</th> <th></th> <th></th>			e	क्रांची राग की	<del>ultransel de 106</del> Frankrivenisen	Di	+ Cizo	e access colle apr		and the second se			and the second s		
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a. CORE DRILLING: Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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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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Shift     Hole No.     Promost of the second	d parti <u>com projecto prese pr</u>
Day       206-1       206-1       1000       1000         Day       A       533       533       533         Aft       B       1       1       1       1         Aft       B       1       1       1       1       1         Nite       C       1       1       1       1       1       1         Core Drilling       6       1	Burgelies Consumed       Supplies Consumed       Product     Day       Aft.     Nite       Name     Number of Units       Got#     Ioo#       Ioo#     Ioo#       Ioo#     Ioo#       Ioo#     Ioo#       Ioo#     Ioo#       Ioo#     Ioo#       Ioo#     Ioo#
A       Aft       Aft         B       Image: Construction in the second	Supplies Consumed           Product         Day         Aft.         Nite           size         Name         Image: Name
B       Anite       Aft.       Nite         C       Aft.       Nite       Description         Hourly Distribution       Day       Aft.       Nite         Core Drilling       Operation       Day       Aft.       Nite         Handling Rod (change bit)       Operation       Description       Description         Overburden - rock bit       Operation       Description       Description         Collaring Hole - Dia. bit       Lumni       Calseal       Mud         Rotary Drilling       Calseal       Mud       Mud         Moud       Mud       Mud       Mud       Mud         Rock Bit - Overburden       Other       Mud       Mud         Reaming (       to       )       Other       Mud         Casing - Placing       Other       Other       Mud         Delays - Client Acct.       Other       Mud       Mud         Cementing - Handling Rods       Other       Mud       Mud         Oving - Hole & Grout       Water       Core b       Length         Setting       Core b       Length       Lost to       De         Moving - Hole to Hole       Lost b       De       De       De <tr< th=""><th>Product     Day     Aft.     Nite       tion     Size     Name     Number of Units       d    </th></tr<>	Product     Day     Aft.     Nite       tion     Size     Name     Number of Units       d
Nite C       Image: Construction bit of the second se	Product         Day         Aft.         Nite           tion         Size         Name         Number of Units           d
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Core Drilling       6       Descrip         Handling Rod (change bit)       Portlar         Collaring Hole - Dia. bit       Lumni         Rotary Drilling       Calseal         Handling Rod (bit)       Mud         Rock Bit - Overburden       Mud         Rock Bit - Overburden       Other         Reaming ( to )       Calseal         Casing - Placing	Product         Day         Aft.         Nite           tion         Size         Name         Number of Units           d
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Contra	t: <u>B40</u>	lge	. U,	6. Da	te: MONTH	19_1	9 <u>86</u> Dril	34 sk	eif dr TYPE	Left DR	ILL NO.		UCK NO.	
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a. CORE DRILLING: Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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**Overburden-Rock Bit:** Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.

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Handling Rod (change bit)       Description       Size       Name         Overburden - rock bit       Description       Size       Name         Portland       Lumnite			me	11101	<u>6.</u> Da	reman s Sign	ature:		a p	1						
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hift Hole No. BOG-1 -30 Chent A A A A A A A A A A A A A	Bit Size & Type	Dri From 512	Footage S illing To		ming To	Fe Drilled or Reamed	Core Re- covered	in in	Casing Hole
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Shift         Hole No.         E         Material Drilled         Bit Size 6 Type         Domiling         Reaming To         Drilled or Reamed         Covered         Size Size         Foot           Day A         A				<u>ا// ر</u>	<u>161</u> Fo	oreman's	Signa	ature: <u>0</u>	9 <u>86</u> Drill Joch P Footage S		- allog	Fé	et.	Tota	al Casing
BBC-1         BC         And         Tom         To         To         To         To         Note           Aft         B	Shift	Hole No.	ngle	Mater	rial Drilled	A CONTRACTOR OF A	104 0 5	D			ming		the second s	and the second second	and the second se
Day       A       A       A         Afi       A       A       A       A         Afi       B       A       A       A         Afi       Description       Supplies Consumed       Description         Dereburden - rock bit       Description       Size       Name         Dorthard       Lumnite       Calseal       A       A         Mud       100#       Mud       100#       A       A         Bock Bit - Overburden       Other (Describe)       A       A       A         Bearing ( to )       A       A       A       A       A       A         Calseal       Other (Describe)       A       A<	S. A.	and the	A	~~~~	+		ype	From	То	From	То	Reamed	covered	Size	Footage
B       Image: Size of the system       Supplies Consumed         Mite       Supplies Consumed         Cere Drilling       Image: Size of the system       Day       Aft.       Nite         Description       Size of the system       Day       Aft.       Nite         Cere Drilling       Image: Size of the system       Day       Aft.       Nite         Orer Drilling       Image: Size of the system       Day       Aft.       Nite         Orer Drilling       Image: Size of the system       Day       Aft.       Nite         Orer Drilling       Image: Size of the system       Day       Aft.       Nite         Cates of the system       Image: Size of the system       Day       Aft.       Nite         Cates of the system       Image: Size of the system       Day       Aft.       Nite         Bit changes:       Size of the system       Size of the system       Size of the system       Size of the system         Bit changes:       Size of the system       Size of the system       Size of the system       Size of the system         Driller's Initials       Differ's Initials       Differ's Initials       Differ's Initials       Differ's Initials       Differ's Initials       Differ's Initials		800-1	-5-	en		The product of the		312	- States		117 - 213, A94		12.62 (12.62 (12.62) (12.62)	ane Jie Reto	
C       Supplies Consumed         Core Drilling       Product       Day       Aft.       Nite         Core Drilling       Product       Product       Name       Number of Units         Description       Size       Name       Number of Units       Number of Units         Collaring Hole - Dia. bit       Calseal		. primerati -	inte a n	n genhar	A marking	2 458223	Tet da	lou grafii	50802 III	in in the	the ports	a maja	grand BOLNESS	이다. (사람 : 1년 (가리	
Core Drilling       Product       Day       Aft.       Nin         Handling Rod (change bit)       Description       Size       Name       Number of Units         Derbürden - rock bit       Description       Size       Name       Number of Units         Callaring Hole - Dia, bit       Lumnite       Image: Calseal       Image: Cals		a apet teritori a			nix esti as		Ginto In-			ningti n	These and		andi yada Nasarin Nasarin	16日 160 11日	
Handling Rod (change bit)       Description       Size       Name       Number of Units         Outradden - rack bit       Portland       Porting       Porting       Portland <td< td=""><td></td><td>Hourly Distrib</td><td>oution</td><td></td><td>Day</td><td>Aft.</td><td></td><td>Nite</td><td></td><td></td><td>Suppl</td><td>lies Consume</td><td>ed</td><td>(1997) (1997)</td><td></td></td<>		Hourly Distrib	oution		Day	Aft.		Nite			Suppl	lies Consume	ed	(1997) (1997)	
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Handling Rod (bit)       Mud       50#         Rock Bit - Overburden       Mud       100#         Iteaming ( to )       Other (Describe)       Iteaming         Placing       Iteaming       Iteaming         - Pulling       Iteaming       Iteaming         - Prep Hole & Grout       Water hauling       miles         - OTHER       Water hauling       index         - Other (be k Grout       Uter thauling       index         - OrthIling       Iteging howes       isize/       no.         - Other (be k Grout       Iteging howes       Iteging howes       Iteging howes         Mix Mud       Iteging howes       Iteging howes       Iteging howes       Iteging howes         Mix Mud       Iteging howes       Iteging howes       Iteging h			DIL						A STATISTICS AND			<u></u>	-		
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• Prep Hole & Grout       Water hauling miles loads         • Setting		and some	0.00079	an anazar	1.14.1716.200	Call of the	100		no strate p	anhi 13 - 30. 	6 July 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	EN ANG TELL	inen anto sala		
- Setting       Core boxes: size/no.         - Drilling       Length of waterline:         Moving - Hole to Hole       Lost tools: Description         Rigging Up - Rigging Down	Cemen	A COMPANY OF THE OWNER OWN	the state of the s	cut.		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		and the second	Water boul	ing			loa	de	
- Drilling       Length of waterline:         Moving - Hole to Hole       Lost tools: Description         Rigging Up - Rigging Down       Lost tools: Description         Mix Mud		A DESCRIPTION OF A DESC		out	11.12.114.111-2	100 to 1 2011		Markon 1	a set of the set of the set	the second s		a hard of the second			
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Total Hours     4     first bit in hole)       Driller's Initials     2k/ll	FOR	Comoni	Fto	5.1									P. N. S. Station of the Station		
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Shift	Hole No.	Angle	Mate	rial Drilled	Bit Size & Type	Dr From	illing To	and the second diversion of th	ming To	Drilled or	and the second		Hole
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Nite C	<u>. (0)</u> (86) (		1007 002 -	The doff late	in ders konte	anghista y	101-1501	eroquin d	tayar a Ay	n of works is offer a me	nosti pasto Na skori in	16年に一、1 11/0	
H	lourly Distri	bution		Day	Aft.	Nite			Suppl	lies Consum	ed state	1.110	
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leamir Casing	Bit - Overbung ( to - Placing - Pulling	rden	<b>)</b>	inger Legister M		ina karasas ina karasas ina karasas	Other (De	scribe) /r	in t	d By BAN	7 560	<b>9</b> 5 193	
elays	- Client Acct.	1000 C	tern merice		and training	Lais setting	ner navis le	Verget resta Transferrest		print Crisilio and Crisilio	el più gna tra anni en	21 18 11 18	
<u>Aoving</u> Rigging	ting - Handlin - Prep Ho - Setting - Drilling - Hole to Ho Up - Rigging	le & C	Grout	4				s: waterline	si	OTHER hiles ze/	and the second sec		
urvey Iobiliz	ion Hole, Los ing, Inclinatio ation/Demot	on Tes	t		non English	nt state og utter kan st Conserver	Depth Casing los	or left in	ft. H hole: Siz	erial no ole #	ft	Angen 1	
	Explain) ter Pur	np	2	1		14 () <u></u>	Lor Bit change (Include	ngco es: S	ize Hole	## ## Serial # –	Depth		
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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.
- 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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a. CORE DRILLING: Show all time actually spent in drilling activity except time spent handling rods and changing bit.
 Handling Rods: Show time spent in tripping rods for bit change, mislatch, stuck tube, etc. This will also include last trip out of hole upon completion.

Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.

**Overburden-Rock Bit:** Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.

b. ROTARY DRILLING: Show all time actually spent in drilling activity except time spent handling rods and changing bit.

Handling Rods: Show time spent in tripping rods for bit change, stuck tube, etc. This will also include the last trip out of hole upon completion.

Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.

- c. Reaming: Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. Casing: Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. Delays—Client Acct.: Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. Cementing Activity: Time spent performing this activity should be properly listed in appropriate category.
- g. Moving: This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
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- j. Conditioning Hole: Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
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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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# THE FEW MINUTES YOU SPEND TO ACCURATELY RECORD YOUR SHIFTS ACTIVITY IS A VITAL AND REQUIRED FUNCTION OF YOUR JOB.

Back         Back <th< th=""><th>Shift</th><th>Hole No.</th><th>Angle</th><th></th><th>erial Drilled</th><th>Bit Si</th><th>ize</th><th>innesota 554 19<u>86</u> Drill <u>Jack R</u> Footage S Drilling</th><th>Summary</th><th>ming</th><th>Fe</th><th>et Core Re-</th><th>Total</th><th>Casing Hole</th></th<>	Shift	Hole No.	Angle		erial Drilled	Bit Si	ize	innesota 554 19 <u>86</u> Drill <u>Jack R</u> Footage S Drilling	Summary	ming	Fe	et Core Re-	Total	Casing Hole
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Day A       206-1       3*       HG       295       1       1         Aft B       Image: State of the stat	Locatio	Bud	me	Ar	12. Fo	oreman's Si	gnature: J	and the second second second	and the second sec				and the second second second	
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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.
- 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.

Day A         Day A         Day A         MB         273         403         30         30         10           Aft B         Aft         Nite         Supplies Consumed         Aft         Nite         Supplies Consumed         Aft         Nite           Nite C         Hourly Distribution         Day         Aft         Nite         Supplies Consumed         Product         Number of Units           Handling Rod (change bit)         Care Drilling         Calsal         Number of Units         Number of Units           Meatry Drilling         Calsal         Mud         50#         Number of Units           Rearb Drilling         Calsal         Mud         50#         Number of Units           Rearb Drilling         Calsal         Mud         100#         Internet the text of	Contrac	Ter Buc	1ge	4	<u>.6.</u> Da	Mir nte:	neapol 2 н п	is, Min	nesota 554 9 <u>85</u> Drill	14 <u>34 pr</u>	til de	ild 7			UCK NO.
Shift         Hole No.         #         Material Drilled         Bit Size & Type         Drilling         Reaming         Original         Reaming         Construction         Reaming         Constococcccccccccccccccccccccccccccccccc	_ocatio	n: Jero	me	, Ar	-12, Fo	oreman's S	lignatur	e:	ade R 19	Jaugel	p				
Arr         Non         Non <th>01.16</th> <th>ALCONT DURING AND AND AND AND AND AND AND AND AND AND</th> <th>gle</th> <th></th> <th></th> <th>Bit Si</th> <th>ze</th> <th>Dri</th> <th>and the second se</th> <th></th> <th>mina</th> <th></th> <th></th> <th></th> <th>and the second s</th>	01.16	ALCONT DURING AND	gle			Bit Si	ze	Dri	and the second se		mina				and the second s
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C       Aft.       Nite       Supplies Consumed         Dere Drilling       6       Product       Day       Aft.       Nite         Handling Rod (change bit)       Description       Size       Product       Day       Aft.       Nite         Outrourden - rock bit       Description       Size       Name       Porduct       Number of Units         Oblaring Hole - Dia. bit       Lumnite       Calseal       Number of Units       Image: Calseal       Image: Calseal </td <td>1000 0000000000000000000000000000000000</td> <td>- pringmanje -</td> <td>lenit 2 -</td> <td>speile</td> <td>it in the second</td> <td>1. Ath Co</td> <td>200 (M)</td> <td>griffi</td> <td></td> <td>Salati e</td> <td>e terror</td> <td>al to Middle</td> <td>1994) [:4:5] * \$</td> <td>900 (13. g) (14.</td> <td></td>	1000 0000000000000000000000000000000000	- pringmanje -	lenit 2 -	speile	it in the second	1. Ath Co	200 (M)	griffi		Salati e	e terror	al to Middle	1994) [:4:5] * \$	900 (13. g) (14.	
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- Prep Hole & Grout       Water hauling miles loads         - Setting	relays.	Chefft Acct.	o HB-A	98-33/2523A	CHEADER THAT	4. 30.03. AND A	in stands	Silver a	entrante B	TANK COLLAR	alv. Rockin	643-576,290	Test Marke (2214)		
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- Drilling       Length of waterline:         Moving - Hole to Hole       Lost tools: Description         Rigging Up - Rigging Down       Interview         Mix Mud       Interview         Condition Hole, Lost Circulation       Lost bits: Size Serial no         Surveying, Inclination Test       Interview         Mobilization/Demobilization       Depth:ft. Hole #         Other (Explain)       Casing lost or left in hole: Sizeft         Image: Size Serial Hours       Bit changes:         Size Serial Hours       Serial Hours         Image: Driller's Initials       Image: Hrs.         HELPERS       Hrs.         HELPERS       Hrs.         A       J.R. HAYSICP		NUMBER OF THE OWNER OF THE OWNER OF	le & G	rout		6.1.2.4	i tatogi	VLANY.	Water haul	ling	m	iles	loa		
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Surveying, Inclination Test       2       Depth:ft. Hole #         Mobilization/Demobilization       Casing lost or left in hole: Sizeft         Dther (Explain)       6or ClientHole #         LongcoHole #       Bit changes: Size Serial # Depth         Include       6or ClientHole #         Dother (Explain)       8         Image: Size Serial # Depth       1000000000000000000000000000000000000	Nix Mu	ıd				ESSI PALHO	1 1. 1.2.35	Land R. Land		r 67. (sum)	(YO) 65 114	100 (00.00	uns plicet		
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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.
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	Drilling						Calseal	Chiefe -					
Hand	lling Rod (bit	)				unis actività	Mud Mud	50 <del>/</del> 100 <del>/</del>			-		
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Shift       Hole No.       E       Material Drilled       Bit Size & Drilling         Day       A	To         From         To         Reamed         covered         Size         Footage           33         1<
Day       MG       JOO       JOO         A       MG       JOO       JOO       JOO         Aft       MG       JOO       JOO       JOO       JOO         Aft       B       Interview	Supplies Consumed         Supplies Consumed         Product       Day       Aft.       Nite         scription       Size       Name       Number of Units         rtland
Day       A       A       A         Aft       B       A       A         B       A       A       A         Nite       C       A       A         C       Aft.       Nite       A         Core Drilling       A       A       A         Handling Rod (change bit)       De       De         Overburden - rock bit       Collaring Hole - Dia. bit       Ca         Rotary Drilling       Ca       Mu         Handling Rod (bit)       Mu       Mu         Rotary Drilling       Ca       Mu         Rock Bit - Overburden       Ot       Ca         Reaming ( to )       Ca       Mu         Delays - Client Acct.       Ca       Ca         Cementing - Handling Rods       Ca       Ca         - Prep Hole & Grout       Wa       Ca         - Setting       Ca       Ca         Moving - Hole to Hole       Lost       Ca         Riaging Up - Riaging Down       Ca       Ca         Mix Mud       Condition Hole, Lost Circulation       Lost         Surveying, Inclination Test       Ca       Ca	Supplies Consumed         Supplies Consumed         Product       Day       Aft.       Nite         scription       Size       Name       Number of Units         rtland
B       Anterior       Day       Aft.       Nite         C       Image: Construction       Day       Aft.       Nite         Core Drilling       Image: Construction       Day       Aft.       Nite         Core Drilling       Image: Construction       Day       Aft.       Nite         Core Drilling       Image: Construction       Dependent       Dependent         Overburden - rock bit       Image: Construction       Poil       Dependent         Collaring Hole - Dia. bit       Image: Construction       Construction       Construction         Rotary Drilling       Image: Construction       Image: Construction       Mite         Rock Bit - Overburden       Image: Construction       Image: Construction       Mite         Casing - Placing       Image: Construction       Image: Construction       Image: Construction         Casing - Placing       Image: Construction       Image: Construction       Image: Construction       Image: Construction         Cementing - Handling Rods       Image: Construction       Image: Construction       Image: Construction       Image: Construction         Moving - Hole to Hole       Image: Construction       Image: Construction       Image: Construction       Image: Construction       Image: Construction       Image: Constructi	Product     Day     Aft.     Nite       scription     Size     Name     Number of Units       rtland
C       Hourly Distribution       Day       Aft.       Nite         Core Drilling       Image: Stress of the s	Product     Day     Aft.     Nite       scription     Size     Name     Number of Units       rtland
Core Drilling       Image: Construct of the second se	Product     Day     Aft.     Nite       scription     Size     Name     Number of Units       rtland
Core Drilling Dee   Handling Rod (change bit) De   Overburden - rock bit Po   Collaring Hole - Dia. bit Lu   Rotary Drilling Ca   Handling Rod (bit) Mu   Rock Bit - Overburden Mu   Reaming ( to ) Ot   Casing - Placing Ot   - Pulling Ot   Delays - Client Acct. Ot   Cementing - Handling Rods Co   - Drilling Co   Moving - Hole to Hole Los   Rigging Up - Rigging Down Los   Mix Mud Condition Hole, Lost Circulation	scription     Size     Name     Number of Units       rtland
Dverburden - rock bit       Po         Collaring Hole - Dia. bit       Lu         Rotary Drilling       Ca         Handling Rod (bit)       Mu         Rock Bit - Overburden       Ot         Reaming ( to )       Ot         Casing – Placing       -         – Pulling       -         Delays - Client Acct.       -         Cementing - Handling Rods       -         - Prep Hole & Grout       Wa         - Setting       Co         - Drilling       Le         Moving - Hole to Hole       Los         Rigging Up - Rigging Down       -         Mix Mud       -         Condition Hole, Lost Circulation       Los	Ind     Ind     Ind     Ind       Iseal     Ind     Ind     Ind       Ind     100#     Ind     Ind       Ind     100#     Ind     Ind       Ind     100#     Ind     Ind       Ind     100#     Ind     Ind       Ind     Ind     Ind     Ind       Ind     Ind     Ind     Ind
Collaring Hole - Dia. bit       Lu         Rotary Drilling       Ca         Handling Rod (bit)       Mu         Rock Bit - Overburden       Ot         Reaming ( to )       Ot         Casing – Placing       -         - Pulling       -         Delays - Client Acct.       -         Cementing - Handling Rods       -         - Setting       Co         - Drilling       Co         - Drilling       Co         - Other Barter       Co         - Setting       -         - Drilling       Le         Moving - Hole to Hole       Los         Rigging Up - Rigging Down       -         Mix Mud       -         Condition Hole, Lost Circulation       Los	mnite
Rotary Drilling       Ca         Rotary Drilling       Mu         Handling Rod (bit)       Mu         Rock Bit - Overburden       Ot         Reaming ( to )       Ot         Casing – Placing       -         – Pulling       -         Delays - Client Acct.       -         Cementing - Handling Rods       -         - Setting       Co         - Drilling       Le         Moving - Hole to Hole       Los         Rigging Up - Rigging Down       Mix Mud         Condition Hole, Lost Circulation       Los	iseal
Handling Rod (bit)       Mu         Rock Bit - Overburden       Ot         Reaming ( to )       Ot         Casing – Placing       -         - Pulling       -         Delays - Client Acct.       -         Cementing - Handling Rods       -         - Prep Hole & Grout       Wa         - Setting       Co         - Drilling       Le         Moving - Hole to Hole       Los         Rigging Up - Rigging Down       -         Mix Mud       -         Condition Hole, Lost Circulation       Los	Id 100# her (Describe) Des
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- Pulling       -         Delays - Client Acct.       -         Cementing - Handling Rods       -         - Prep Hole & Grout       Watch and the second and the	ter hauling miles loads re boxes: size/_ <u>//6</u> no. ngth of waterline:
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Condition Hole, Lost Circulation Lo Surveying, Inclination Test	so that the series of the second states of the second states of
Surveying, Inclination Test	st bits: Size Serial no
	Depth: ft. Hole #
	sing lost or left in hole: Size ft
Other (Explain)	for Client Hole #
and the second sec	Longco Hole #
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	hole)
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Shift     DRILLERS     Hrs.     HELPER       A     J.R.HAJSIP     W.R.MI	
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C Remarks:	

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	n: <u>Jero</u>		HONEY (EA)	AN PROPERTY AND A PRO	5.20 P.N. 7	t Size	protection of	Footage S	Summary	दर्णित तह	Fe	et	Tota	l Casing Hole
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Aft B	- á denora	1715. : 10	n paitse	ari metanen	24. KG308	<u>87</u> 878	tod 12-jagillios	te su nom e s	tin den ac	d lis een	1 (1997) 1 (1997)	ADDA ADDA	নেক হারি : ৫ : নার্ব	
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	Hourly Distrik	oution		Day	Aft	.	Nite			Suppl	ies Consume	ed the second	140	
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	alon of t	Q.2144, 2	SHALL TURN	P D D REALE	a. Mille	Contract 1	September 14 (19) H	The subsection of			OTHER	Non-Para Bank		1
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	ion Hole, Los	t Circul	ation		1	and a second	<u># 12</u>	Lost bits:	Sizo	S	erial no		<u>a 197</u>	
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hift Hole No. ay A A A A A A A A A A A A A A	Bit Size & Type HQ	From	Footage S		18- 11- 18- 18- 18- 18- 18- 18- 18- 18-	Te	et	Ota	Casing
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ETT SALES

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

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Locatio	t: <u>B40</u> n: Jer	I do an	e,A	FIC: Fo	a ala solatiso	ature:	Footage S	and and an interest		and the second sec	et	A CONTRACTOR OF THE	I Casing
Shift	Hole No.	Angle	Mater	ial Drilled	Bit Size & Type	Dr From	illing To	Rea From	ming To	Drilled or Reamed	Core Re- covered	in Size	Hole Footage
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	lling Rod (cha rden - rock bi	Contraction of the second	it)		CHE VERICE		Descriptio Portland	n S	ize dana d	Name		umber o	r Units
and the second second second	ng Hole - Dia.						Lumnite	applets <del>ta a</del>	र तरहा करन	And a state			
	Drilling			San Masa			Calseal	and the second					
Hand	lling Rod (bit	)	-				Mud Mud	50 <del>/</del> 100 <del>/</del>		la ca Lainda		-	
Peak	Bit - Overbu	rdon					Other (De		+ 	<u></u>	-		
Reamin		ruen	)		State State State		Other (De.	serribe /			a <sup>ne</sup> finitensia	10-21	
	- Placing	12196.4	trates to galas	·加加。·加小市。	18 (R. C. S. D. B. M. S.	no-shout	rgeralise gri	nain jour	and the second	after a transferra	ar a cipata	12 4A	
A PROPERTY AND INCOME.	– Pulling				and search the search	nam silanga	6-010401-10	14441-640				19	
Delays	Client Acct.						Cliffs, Stability, A.H.	er our gene Transa		DAVE - ENDER			
Comon	ting - Handlin	a Rod	c			1990 110 19	1. 1912 F. 1. 1913	1.27 A 1.27	e pare vita	OTHER	N. COS 21107	135	
Cemen	- Prep Ho			al opening	「見た」をある。	adax yanas	Water hau	ing	. m	iles	loa	ds	
	- Setting	ie (entri		nder eine stern			Core boxe	s: /	si:	ze/3			
	- Drilling	and the second se	ide de Oct	10693020152	196007 72-7 69 -	salar parang	Length of				15-2-6-14(5)(6) 		
the second second second second	- Hole to Ho	The local data was been as					Lost tools:	Descripti	on	and Toronto	719 - 1 <sup>-14</sup> (6)		
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	ion Hole, Los	t Circu	lation	and Grandward	GBP NAT IN		Lost bits:	Size	Se	erial no	shi anerse	and a	a de la companya
and the second se	ing, Inclinatio						A DEALER AND A DEA	Constant all the second	1 A. A. H. A. D. B. A. D. M. C.	ole #	14		
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		n <del>ons n</del>			Constanting of		Bit change	s: S	ize i	Serial #	Depth	nied an	
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	all the second second			-			first bit		196 - 19				
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MARCH MARY PLACE

a. CORE DRILLING: Show all time actually spent in drilling activity except time spent handling rods and changing bit.
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Bit Change: Show time spent in changing bit. This time shall include the time spent in handling the rods to effect the bit change.

**Overburden-Rock Bit:** Show the time spent drilling through the overburden with a rock bit and employing a diamond core drill.

b. ROTARY DRILLING: Show all time actually spent in drilling activity except time spent handling rods and changing bit.

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- c. Reaming: Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. Casing: Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
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- m. Other (Explain): List time spent performing activity not listed in Hourly Distribution column. Explain in detail.
- n. Supplies consumed:) Other: ) List appropriately.
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Shift       Hole No.       Image: Solution of the solution of	<u>- 19</u> 19 <u>85</u> Drill <u>34 skilchill 704</u> TYPE DRILL NO. TR gnature: Joch B Haepp	re: <u>Ja</u>	омтн 's Signa	мс oreman	12. Fo	Ari	e,	n	on: Jeton	Location
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Core Drilling       Product       Day       Aft.         Handling Rod (change bit)       Description       Size       Name       Number of U         Overburden rock bit       Portland       Lumnite       Image: Classal	Nite Supplies Consumed	ite		Aft	Day		tion	but	Hourly Distribu	H
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Collaring Hole - Dia. bit       Lumnite         Rotary Drilling       Galseal         Handling Rod (bit)       Mud         Mud       100#         Rock Bit - Overburden       Other (Describe)         Rearing ( to )       Mud         - Pulling       -         - Pulling       -         Delays - Client Acct.       -         Carsing - Handling Rods       -         - Prep Hole & Grout       Water hauling         - Drilling       -         Mod       10#         Moring - Hole & Grout       Water hauling         - Drilling       -         Moving - Hole & Grout       -         - Drilling       -         Moving - Hole to Hole       -         Rigging Up - Rigging Down       -         Mix Mud       -         Condition Hole, Lost Circulation       Cost bits: Size ft. Hole #				a tagan ta			<u>ge bit)</u>	10000	A CORRECT OF CALLS AND A CONTRACT OF CALLS AND A CONTR	The state of the second state of the
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- Drilling       Length of waterline:         Moving - Hole to Hole       Lost tools: Description         Rigging Up - Rigging Down       Lost tools: Description         Mix Mud       Lost bits: Size         Condition Hole, Lost Circulation       Lost bits: Size         Surveying, Inclination Test       Depth:         Mobilization/Demobilization       Casing lost or left in hole: Size         Other (Explain)       Hot Lwg Rocs         Level to Level And howing       Bit changes:         Size       Serial #         Depth       Longco         Hole #       Longco         Lord Hours       In hole)         Driller's Initials       In hole	Water hauling miles loads	W	STD. 16	1. 199	hastala no	ut	STOCK STOCK	CONCIDENT.		
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hift Hole No. Bit Size   ay 806-1 90   ay 806-1   ay 100   A 100     B 100     A 100     B 100     A 100     B 100     B 100     B 100     B 100     B 100     B <td< th=""><th>Footage Summary       Feet       Total Casir in Hole         To       From       To       Reamed       Covered       Size       Footage         55       400       90       400       90       400       90       400         55       400       90       90       90       90       90       90       90       90&lt;</th></td<>	Footage Summary       Feet       Total Casir in Hole         To       From       To       Reamed       Covered       Size       Footage         55       400       90       400       90       400       90       400         55       400       90       90       90       90       90       90       90       90<
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C     Day     Aft.     Nite       Hourly Distribution     Day     Aft.     Nite       re Drilling     Image: Second	Product     Day     Aft.     N       Description     Size     Name     Number of Units       Portland
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Contrac	n: <u>Jero</u>	' <u>ge</u>	4.6	Da	Minn	Contracting General (	Office	٩	O il dr	ill/			REPORT
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Shift	Hole No.	Angle	Mate	rial Drilled	Bit Size & Type	Dr	Footage S illing	Rea	ming	Drilled or	and the strength of the second	in	Casing Hole
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	ng Hole - Dia.	bit				1999 - 1978 - 1999 - 1998 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 - 1978 -	Lumnite Calseal			1411	in head an		
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Locatio	n. <u>Jero</u>	TO T	<u>e, A</u>	r12.F	ate: <u>12</u> MONTH preman's Sign	ature:	Footage S	- my distant of the	pup	ALC: NOT THE PARTY OF	et	Tota	I Casing
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and the second se	Drilling	- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1					Calseal	50#		-	te i a terre a se	-	
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and the second	Drilling	. DIL					Calseal						
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