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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. 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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- 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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CRC OFFICE SUPPLY DIST., INC.-MINNEAPOLIS, MINN. 55402

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CRC OFFICE SUPPLY DIST., INC.-MINNEAPOLIS, MINN. 55402

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CRC OFFICE SUPPLY DIST., INC. --MINNEAPOLIS, MINN. 55402

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

CULAGIAN COMPANY

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CRC OFFICE SUPPLY DIST., INC. --MINNEAPOLIS, MINN. 55402

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CRC OFFICE SUPPLY DIST., INC.-MINNEAPOLIS, MINN. 55402

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CRC OFFICE SUPPLY DIST., INC.-MINNEAPOLIS, MINN. 55402

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FDAMEY DRIVE REPOR

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CRC OFFICE SUPPLY DIST., INC. -MINNEAPOLIS, MINN. 55402

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CRC OFFICE SUPPLY DIST., INC.-MINNEAPOLIS, MINN. 55402

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

CRC OFFICE SUPPLY DIST., INC. --MINNEAPOLIS, MINN. 55402

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	01		77	Ç	5	C	ontracting	046:00		0		"DAILY	DRILL	. REPORT
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Shift	Hole No.	Angle	in dina tra	erial Drilled	в	it Size	CHICADO BI	Footage S	ummary	aming	Fe	et Core Re-	Tota	al Casing h Hole
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						11	1/							

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Control	n: Budg	¢ 7	12		Minne		Office nnesota 554		M-==	3710			. REPORT
	n: <u>Jeron</u>			D	ate: <u>10</u> MONTH oreman's Sigr	DAY nature:	Pat	28	TYPE	ord	RILL NO.	TR	JCK NO.
01:6		Angle	transa (r		Bit Size	TING TO B	Footage S rilling	ummary			et	Allow Burger Contractor	I Casing Hole
Shift	Hole No.	An	IVIATE	erial Drilled	& Type	From	То	From	ming To	Drilled or Reamed	Core Re-	Size	Footage
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Nite C	e last svip. Nate the	11 etc 1	also in also	in This will	a John Autor	saites (b.)	n nil skon	niuter) n tid phino	e spant an, an in ch	nie walić is 19 Homa: Asi 50 Janit wov	er slor for er slor fo 2. sanadu	a.N. a.o 218 - 3	
	-lourly Distril	bution		Day	Aft.	Nite			Supp	lies Consume	ed spinore	110	
	rilling Iling Rod (cha	ange bi	t)	ntual reaction	e sauloni iniu	are invait	Descriptio	n S	ize	Product Name	Day	Aft.	
Overbu	rden - rock bi	it	ni nevla	the adverses	ant has an	un ten un ia	Portland	golitera z	n neinelle	There ensit	un He main	1 3 W.	
	ng Hole - Dia.	bit					Lumnite Calseal	1 - <u></u>		1971	er listel re	an	
	Drilling Iling Rod (bit	)			to many the second	ting the state	Mud	50	¥	ntof soon	19 10 - 14	10 0	-
							Mud	1007	¥	bamskuzs h	ne net forag	Y bel	
	Bit - Overbu	rden					Other (Des	cribe)	Solent DE	and write	o A painter		
Reamin	ng ( to — Placing	19-900	CHURCH MA	M USUNAL 71		10 20081	19940 90 - <u>61</u> 3	कतराह तालग	101 711 Deze	9001 219000	The sport	divie	
	- Pulling				Securit Junit	ander son det	18 th and the second second	Terration of the		addening the	that was stated	1	
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ement	ting - Handlin - Prep Ho			troitgrates to	Transfer outer	entir vino	Water boul	ina		OTHER niles		de	
	- Setting	and the second se	Iout	2	agan al p Tr	mishon .				ize/			
	<	s sounds	ti e al ta	(8)	(140月)34 治1	enus, serviz	Length of	waterline	and the state of the	4414 6 2000 00	<del>la con</del> tribili	1.10	
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and the second sec	on Hole, Los	t Circu	lation	rist abalant	in Phis shoil	ioda se lia	Lost hits:			erial no	ond Lonnyes	1:38	
	ng, Inclinatio									lole #			
An I have been	ation/Demob	oilizatio	on	wath ridging	outros vestá e	Gr. 400101	Casing lost	or left in	hole: Siz	ze	ft	Jail	Sec. 1
other (	Explain)						for Cli	ent	Hole	e#	evoda	19411 S	
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Contrac	n: Buda	e	#2	Da	N ate: <u>/</u>	Ainnea 0 -	General apolis, Min	nnesota 554	14 L. A	1-3	7/0			REPORT
Locatio	n: <u>Sever</u>	ne	4	Fo	MO preman'	мтн s Sign	DAY ature: 4	Par :	1 2	TYPE	DR	ILL NO.	TRU	JCK NO.
Shift	Hole No.	Angle	the and	erial Drilled	Bit	Size	Carrier of	Footage S	ummary	ming	Fe	et Core Re-	Tota	Casing Hole
	5105 305115	4	<del>71 5117 20</del>	HIGHER THE THE	8	Гуре	From	То	From	То	Reamed	covered	Size	Footage
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	lourly Distril	bution		Day	Aft.		Nite			Supp	lies Consume	ed	2.141	
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NOTE: If item is chargeable to elient, place circle around time entry. Please follow instructions on reverse side.

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.

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

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

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- 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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Shift         Hole No.         Bit Size Reaming         Footage Summary         Feet         Total Casing in Hole           Day A         701-1         110         Bit Size Rotage         Dilling         Reaming         Dilling of Core Re- in Hole         Size         Footage Summary         Feet         Total Casing in Hole           Day A         701-1         110         Size         Footage Summary         Feet         Total Casing in Hole         Size         Footage           Aft         100         2372         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	Contract: Budge #2		te: <u>10</u> MONTH reman's Sign		9 <u>85</u> Drill	1M	-3 T	DR	ILL NO.		ICK NO.
Shift         Hole No.         Rearing Dilled         Bit Size No.         Delling         Reaming Dilled or Core Re- Barned         In Hole.           Day A         701-1         119         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -		Residences a	1	A MARINE IN	Footage S	ummary	e Referèndes	Fe	et	Tota	Casing
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	tid grigg		a filor g	- Kantanaa		-	dingue Er	Footage S	ummarv	a and the	Fe	et	Tota	l Casing
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and the second se	ling Rod (cha		t)					Descriptio	n S	ize	Name	Nu	umber o	f Units
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	g Hole - Dia. Drilling	DIT						Calseal	1			007700H 70		
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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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	n: Jero			Da	nte: <u>9 -</u> MONTH preman's Sign	DAY ature:	Part S.	Sil	rype	DF	RILL NO.	TR	UCK NO.
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	Bit - Overbu	urden	and the state	territy operation		-	Other (De	scribe)			ioA unuma		
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THE REPORT OF THE PARTY OF	10.1	Thus been	Charles & Sectore	E SALE WE BUILD	PERMIT ALL ST	Eastara C		Context Time	P P P P P P P P P P P P P P P P P P P	et	Tot	al Casing
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A       POL-1       #//       POLAL       32.7       33.1       A       A         Aft       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B	ocation: Jerome	Fo	oreman's Sign	ature:	MALL.	Shu	got ghanne	1 400 70	~~~~	
A     Prom     IO     Prom     IO     Prom       A     Prom     IO     IO     Prom     IO	9	1. 17 g(01.1.)	Bit Size	Constanting Pro-						
Day A     ZO/-1     # #     MQwL     3.2.9     7.3.1     Z     3       Aft B     Aft     New     3.2.9     7.3.1     Z     3     -       Aft B	Shift Hole No. Z Mate	rial Drilled					Contraction of the Contraction o			
B       Image: Construction of the second seco	Day 901-1 + 11°		NQWL	329	331		2	2	100	
C       Day       Aft.       Nite       Supplies Consumed         Dore Drilling       2       Product       Day       Aft.       Nite         Dare Drilling       2       Portland       Product       Day       Aft.       Nite         Mandling Rod (change bit)       2       Portland       Lumnite       Number of Units         Dotary Drilling       Catesel       0       1       1       1         Model Sold       00#       00#       1       1       1         Model Sold       00#       00#       1       1       1         Aft.       Number of Units       1       1       1       1       1         Model Sold       00#       00#       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 <th>Aft B B B B B B B B B B B B B B B B B B B</th> <th>usid i meos em</th> <th>a idaaxa ida</th> <th>e filing act</th> <th>i autor</th> <th>Neutos es al la</th> <th>Wolf Prov</th> <th>and yilan</th> <th>DR RO</th> <th></th>	Aft B B B B B B B B B B B B B B B B B B B	usid i meos em	a idaaxa ida	e filing act	i autor	Neutos es al la	Wolf Prov	and yilan	DR RO	
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Handling Rod (change bit)       Description       Size       Name       Number of Units         Verburden - rock bit       Portland       Portland       Image: Size       Name       Number of Units         Iotary Drilling       Image: Size       Size       Name       Number of Units       Image: Size       Name       Number of Units         Handling Rod (bit)       Image: Size       Image: Size<		2	nebulom bi u	ude munde	artuT gra			STREET, STREET	Aft.	Nite
ollaring Hole - Dia. bit       Lumnite			Current and		Descriptio			Alter a second s		
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- Drilling       Length of waterline:         Aoving - Hole to Hole       Lost tools: Description         Rigging Down       Lost tools: Description         Aix Mud       Lost tools: Size         Serial no.       Depth:         Inclination Test       Depth:         Abilization/Demobilization       Casing lost or left in hole: Size         Other (Explain)       for Client         Hole       Hrs.         Hrs.       HELPERS         Hrs.       HELPERS		THUS SHOULD AN	moursijiii.	INVINO FILI	Water haul	ing	_ miles			
Moving - Hole to Hole       Lost tools: Description         Rigging Up - Rigging Down       Image: Size		PLEADOR 25/01	FERENCE CONTRACTOR	elle Bet da	Length of	waterline:				
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Surveying, Inclination Test	The second	(F)		Contraction of the			Casial as	o graatalises	and 13	
Mobilization/Demobilization       Casing lost or left in hole: Sizeft         Other (Explain)       for Client         Witcline       I         Bit changes:       Size Serial # Depth         (Include		C		COLOR OF THE						
Other (Explain)       for Client       Hole #         Witcline       I       I       Longco       Hole #         Bit changes:       Size       Serial #       Depth         Image:       Image:       Image:       Size       Serial #       Depth         Image:       Image:       Image:       Image:       Image:       Image:       Image:         Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:       Image:	Mobilization/Demobilization	e unit-citter a	zuines tel/	Corace, Do						
Witching     Image: LongcoHole #       Bit changes:     Size       Size     Serial #       Driller's Initials     Image: LongcoHole #       Shift     DRILLERS       Hrs.     HELPERS       Hrs.     Hrs.	Other (Explain)				for Cli	ient I	-lole #	above.		
Total Hours     Inst bit       Driller's Initials     Imst bit       Bhift     DRILLERS       Hrs.     HELPERS       Hrs.     TRUCK DRIVERS	witeLine	mark to mark	distaid which	Here barrel	1	1	Jalo #			
Total Hours     in hole)       Driller's Initials     Image: Constraint of the second					Bit change (Include first bit	s: Size <u>NQWL</u>	Serial # 1.90693	Depth 330	n, Sup Oth	
Shift DRILLERS Hrs. HELPERS Hrs. TRUCK DRIVERS Hr	Total Hours	No.	n bereiten	i leroa sent	in hole)	ntrulas nacud	HIER YHUGH SH	in bader in		
	Driller's Initials	as a	A GROSS	TELY R	ARUDOA	OT GURAS	JOY SITU	मिर्द्र क्षेत्र होत्	3HIT	
	Shift DRILLERS		Hrs.	HEL	PERS	Hrs.	TRU		RS	Hr
		IV INDE					17211			

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.

Handling Rod (change bit)       /       Description       Size       Name         Ourburden - rock bit       Portland	Locatio	on: <u>Jeve</u>	nm-e		Fo	oreman's Sign	ature:	Val	LM 18.	hine	d i	-		
Day A       GL-+       +10°       MWu1       31.3       32.9       7.6       7.3         Aft B       Aft       31.3       32.9       7.6       7.3       1.4         Nite       Supplies Consumed       1.4       1.4       1.4       1.4         Nite       Supplies Consumed       1.4       1.4       1.4       1.4         Nite       Supplies Consumed       Product       Day       Aft.       1.4         Handing Rod (change bit)       7       1.4       Description       Size       Name       Day       Aft.       1.4         Core Drilling       2       Aft       1.4       Description       Size       Name       Day       Aft.       1.4         Core Drilling       3.1       Calseal       Mud       500#       1.4       1.4         Handling Rod (bit)       Mud       500#       7       1.4       1.4         Reak Bit - Overburden       00#       0#       2.4       1.4       1.4         Bearing - Hacing       1.0       1.4       1.4       1.4       1.4         - Pulling       1.0       1.4       1.4       1.4       1.4         Delays - Client Acct. <t< th=""><th>Shift</th><th>Hole No.</th><th>Angle</th><th>Mate</th><th>rial Drilled</th><th></th><th>the second se</th><th>illing</th><th>Rea</th><th></th><th>Drilled or</th><th>Core Re-</th><th>in</th><th>Hole</th></t<>	Shift	Hole No.	Angle	Mate	rial Drilled		the second se	illing	Rea		Drilled or	Core Re-	in	Hole
A         V2/-/         +         I         V2/VI         313         327         I         I         I           Aft         B         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I <tdi< td=""> <tdi< td="">         I         &lt;</tdi<></tdi<>	Dav	angutane	15 10	er britt. Ber	inten marca	राह करते होता. व	From	Constant State	From	10	Reamed	covered	SIZE	rootag
B       Image: Construct of the second		901-1	+ 110	inose sur		MRWI	313	329	5-14-008 SC	11 9/10 We	16	13	NO NO	
Nite       Supplies Consumed         Core Drilling       2         Handling Rod (change bit)       7         Description       Size         Name       Product         Description       Size         Number of Unit       Description         Calsaing Hole - Dia. bit       Lumnite         Calsaing Hole - Dia. bit       Calsaid         Handling Rod (bit)       Mud         Rearring (to )       Calsaid         Pating       Calsaid         - Pulling       Calsaid         - Prep Hole & Grout       Calsaid         - Prep Hole & Grout       Carbox estime         - Prep Hole & Grout       Carbox estime         - Setting       Core boxees:         - Striveying, Inclination Test       Depth:         - Mobilization/Demobilization       Casing Lost or left in hole: Size		phiphado	4	or geolor	ist servita bain	t upping with	roa gasefin	ri meda j	uliculai Br	n tu wo	ILLINGS (D	TATEV DI	100 08.80	
Hourly Distribution       Day       Aft.       Nite       Supplies Consumed         Core Drilling       3       -       Peroduct       Day       Aft.       I         Handling Rod (change bit)       1       -       Pescription       Size       Name       Day       Aft.       I         Overburden - rock bit       -       -       Portland       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	Nite	und halfe	t ale	also inet	the stiff	alin soin	opnuda n	a not abor	970621870-70	in spent		aling Par	anti a run	
Core Drilling       Product       Day       Aft       Name         Handling Rod (change bit)       /       Description       Size       Name       Number of Unit         Collaring Hole - Dia. bit       Lumnite		Jourly Distri		n Sitt on	Manari in top	A64	Nite	antin sia j	and holon	0		Champies S	封留	
Handling Rod (change bit)       /       Description       Size       Name         Outrougen - rock bit       Number of Unit         Collaring Hole - Dia, bit       Lumnite         Gatary Drilling       Calseal         Handling Rod (bit)       Mud       100#         Handling Rod (bit)       Mud       100#         Reak Bit - Overburden       Other (Descripte)       /         Reaming ( to )       E Z Mud       Spal         - Pulling       //       /         Delays - Client Acct.       //       //         Cementing - Handling Rods       //       //         - Prep Hole & Grout       //       //         OTHER       Lost bits: Size       Serial no.         Moving - Hole to Hole       Lost bits: Size       Serial no.         Bigging Up - Rigging Down       ///       Lost bits: Size       Serial no.         Other (Explain)       ///       Casing lost or left in hole: Size	the state of the second st	and the second	oution			AIL.	Nite	are Time	All can della a				Aft	. Nite
Collaring Hole - Dia. bit       Lumnite	and the second s	the second se	ange bi	t)	1			Descriptio	n Si					
Botary Drilling       Calseal         Handling Rod (bit)       Mud       50#         Mud       100#         Reck Bit - Overburden       Other (Describe)         Beaming ( to )       E 2 Mud       5gal	Overbu	irden - rock bi	it	a martin	the sectors in	tet has and	an the axis	Portland	deal francisco	i haiseta	to sur und	undel? - on	a ch	
Handling Rod (bit)       Mud       50#       Image: Strategy and		the second se	bit	-							19.00	aa relata se	abut	
Rock Bit - Overburden       Mud       100#       Image: Strategy and Strategy			-	- Alternation			ting the first	CARD THE STORE STORE	FOX		atorta a para A	100 100 2200	ind an	
Rock Bit - Overburden       Other (Describe)       Image: State of the st	Hand	aling Rod (bit	1	uga ita	and the second	eite as antes they	t on Exercised	AND VALUE OF			ti ni batawa	- thesease	- set	-
teaming ( to )       E2 Mud Sgal /	Roc	k Bit - Overbu	rden					Files		er sp <u>eur</u>	Control Control of the			10 10 10 10 10 10 10 10 10 10 10 10 10 1
Asing – Placing   - Pulling   helays - Client Acct.     Prep Hole & Grout   - Prep Hole & Grout     - Prep Hole & Grout     - Prep Hole & Grout     - Prep Hole & Grout     - Prep Hole & Grout     - Prep Hole & Grout     - Prep Hole & Grout     - Prep Hole & Grout     - Prep Hole & Grout     - Prep Hole & Grout     - Drilling        - Drilling           - Drilling </td <td></td> <td></td> <td>11111</td> <td>)</td> <td>HEALEN E</td> <td></td> <td>and to for Machine</td> <td>1251 1017 100 121 100</td> <td>13</td> <td>oal</td> <td></td> <td>1</td> <td></td> <td>1</td>			11111	)	HEALEN E		and to for Machine	1251 1017 100 121 100	13	oal		1		1
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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         Bigging Up - Rigging Down	-					CONCERN MICH	NOT COUNT	and the second			CPI Intel Contractor	The state of the second		
- Prep Hole & Grout       Water hauling miles loads         - Setting	Delays	- Client Acct.	01103	TYPE CHILD	y nembros abr	76 (F 105)-10 1	2019 310 10	1111 11102 11	an on an a	Real of Ve	EST SIG ALL	The start group	AL A A SHA	
- Prep Hole & Grout       Water hauling miles loads         - Setting	emen	ting - Handlin	a Rode				TOWNER O	- Tylas a sector	THE PARTY	then star	OTHER	to decenter	dia -	_ <u>_</u>
- Setting       Core boxes: size/ no.         - Drilling       Length of waterline:         Moving - Hole to Hole       Lost tools: Description         Rigging Up - Rigging Down       Lost tools: Description         Mix Mud       Lost tools: Description         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 #         Longco       Hole #         Driller's Initials       Image: Size Serial #         Shift       DRILLERS       Hrs.	Semen	Contraction of the second second second second	COLUMN STREET, STORY	Statements and statements and	minerado 10	H 31 . PI3 . BRD 1	sdar ying-	Water hau	ling	m		loa	ds	
Moving - Hole to Hole		the second second second second second	Et rivita	the age	anzini yrez.	9350 8431 FC	in stranger	Core boxe	s:	si	ze/	no.		
Rigging Up - Rigging Down   Mix Mud   Condition Hole) Lost Circulation   Surveying, Inclination Test   Mobilization/Demobilization   Other (Explain)   Casing lost or left in hole: Sizeft   Casing lost or left in hole: Sizeft   LongcoHole #   LongcoHole #   LongcoHole #   Dirtler's Initials   Driller's Initials   Hrs.		the second s		1136 mr-123	multion setu	ensup ten de	onne era inn	Length of	waterline:	mr quana a	Thard Station a	101 = 221/7 + 124 +	1430t	
Mix Mud       Condition Hole) Lost Circulation       Condition Test       Lost bits: Size Serial no         Surveying, Inclination Test       Depth:ft. Hole #         Mobilization/Demobilization       Depth:ft. Hole #         Other (Explain)       Image: Sizeft         Image: Sizeft       For Client         Image: Size       Size         Image: Size       Size         Image: Size       Size         Image: Size       Size	and the second se	A T SHOULD BE READING TO A SHOULD BE READING	the second second second second	THAT IS NO		and the second second	Constant and	Lost tools:	Description	on	Contra de Andreite	Constant and the	ALC: N	
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Surveying, Inclination Test       Depth:ft. Hole #         Mobilization/Demobilization       Casing lost or left in hole: Sizeft         Other (Explain)       for ClientHole #         LongcoHole #       Longco			t Circu	lation	(4)	is do state in a	white well the	Lost hits:	Size	S	erial no	ant animes	Fuil of	
Mobilization/Demobilization       Casing lost or left in hole: Sizeft         Other (Explain)       for ClientHole #         LongcoHole #       Longco						and the set of	and the second							
Indext     Indext       Image: Longco     Hole #       Image: Longco     Hole #       Image: Longco     Hole #       Image: Size     Serial #       Image: Size     Size       Image: Size     Size    <	the second s	The second se	oilizatio	on	ninima titikar a	automa tolo	C Sustand	Casing lost	or left in	hole: Siz	ze <u>a onibsol i</u>	ft	tail	
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Shift DRILLERS Hrs. HELPERS Hrs. TRUCK DRIVERS			Total I	Hours	Richard	n poten anuen	nietot.evi)	in hole)	mmuloo he	inter (build)	a viapon an	in beten in		
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A P.L. Schroeder 8 J.Rosenbury 8	А				W mine				171'4.01	8	211			
B C														

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.     Break     Description     Size     Feet     Total Casing       Day     ZO-1     #//     #//     ZO     From     To     Reamed     Correct     Size     Footage       Day     ZO-1     #//     #//     ZO	Shift         Hole No.         Image: Shift         Material Drilled         Bit Size & From         To         From         To         From         To         Reamed         covered         Size         Footag           Day A         ZOL-1         #11         MQML         285         #13         2.8         27.9         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - </th <th>Reaming       Drilled or       Core Recovered       in Hole         From       To       Reamed       covered       Size       Foo         2       2       2%       2%       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -</th>	Reaming       Drilled or       Core Recovered       in Hole         From       To       Reamed       covered       Size       Foo         2       2       2%       2%       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -
A       ZCL-I       FIGH       <	A         ZCI - I         FIGH         IC         FIGH         IC         FIGH         IC         FIGH         IC         FIGH         IC         FIGH	From         To         Reamed         covered         Size         Foo           2         2         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%         2%
A       ZOL-1       #II       #W##       ZOL       ZOL         Aft       B       Image: State of the state	A       201-7       #11       #40# - 400       21.3       2.8       21.9         Aft       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B <td< th=""><th>Supplies Consumed           Product         Day         Aft.         I           on         Size         Name         Number of Unit           50#         100#         1         1           id         5gal         1         1         1</th></td<>	Supplies Consumed           Product         Day         Aft.         I           on         Size         Name         Number of Unit           50#         100#         1         1           id         5gal         1         1         1
B       Image: Construct of the second	B       Image: Construct of the second	Product     Day     Aft.     I       on     Size     Name     Number of Unit       50#
C       Junct Distribution       Day       Aft.       Nite       Supplies Consumed         Core Drilling       6       Product       Day       Aft.       Nite         Description       Size       Product       Day       Aft.       Nite         Description       Size       Name       Product       Day       Aft.       Nite         Description       Size       Name       Product       Day       Aft.       Nite         Description       Size       Portland       Lumnite	C       Burry Distribution       Day       Aft.       Nite       Supplies Consumed         Dore Drilling       6	Product     Day     Aft.     I       on     Size     Name     Number of Unit       50#
Houry Distribution       Day       Aft.       Nite       Supplies Consumed         Core Drilling       6	Houry Distribution       Day       Aft.       Nite       Supplies Consumed         Dare Drilling       6       Product       Day       Aft.       Nite         Care Drilling       6       Portland       Description       Size       Name       Number of Units         Dataring Hole - Dia. bit       Dataring Hole - Dia. bit       Description       Size       Name       Number of Units         Dataring Hole - Dia. bit       Dataring Hole - Dia. bit       Mud       50#       Image: Data Data Data Data Data Data Data Dat	Product     Day     Aft.     I       on     Size     Name     Number of Unit       50#
Dare Drilling       6       Product       Day       Aft.       Nite         Handling Rod (change bit)       Description       Size       Name       Number of Units         Dataring Hole - Dia. bit       Description       Size       Name       Number of Units         Dataring Hole - Dia. bit       Description       Size       Name       Number of Units         Dataring Hole - Dia. bit       Description       Size       Name       Number of Units         Calseal       Calseal       Description       Size       Name       Number of Units         Andling Rod (bit)       Mud       50#       Description       Size       Description       Description       Size       Description       Size       Description       Size       Description       Size       Description       Size       Description	Dare Drilling       6       Product       Day       Aft.       Nite         Handling Rod (change bit)       Description       Size       Name       Name       Number of Units         Dotary Drilling       Calseal       Description       Size       Name       Name       Number of Units         Additing Hole - Dia. bit       Lumnite       Calseal       Image: Size       Name       Name </td <td>Product     Day     Aft.     I       on     Size     Name     Number of Unit       50#    </td>	Product     Day     Aft.     I       on     Size     Name     Number of Unit       50#
Handling Rod (change bit)       Description       Size       Name       Number of Units         Verburden - rock bit       Portland       Portland       Image: Size       Name       Number of Units         Rotary Drilling       Image: Size       Name       Number of Units       Image: Size       Name       Number of Units         Handling Rod (bit)       Image: Number of Units       Image: Number of Units       Image: Number of Units       Image: Number of Units         Handling Rod (bit)       Image: Number of Units       Image: Number of Units       Image: Number of Units         Handling Rod (bit)       Image: Number of Units       Image: Number of Units       Image: Number of Units         Rock Bit - Overburden       Image: Number of Units       Image: Number of Units       Image: Number of Units         Rock Bit - Overburden       Image: Number of Units       Image: Number of Units       Image: Number of Units         Palling       Image: Number of Units       Image: Number of Units       Image: Number of Units       Image: Number of Units         Paling Hole & Gause       Image: Number of Units       Image: Number of Units       Image: Number of Units       Image: Number of Units         Paling       Image: Number of Units       Image: Number of Units       Image: Number of Units       Image: Numits       Image: Number of Units <td>Handling Rod (change bit)       Description       Size       Name       Number of Units         Verburden - rock bit       Description       Size       Name       Number of Units         Rotary Drilling       Calseal       Image: Size       Name       Image: Size       Name         Handling Rod (bit)       Mud       50#       Image: Size       Image:</td> <td>on         Size         Name         Number of Unit           50#        </td>	Handling Rod (change bit)       Description       Size       Name       Number of Units         Verburden - rock bit       Description       Size       Name       Number of Units         Rotary Drilling       Calseal       Image: Size       Name       Image: Size       Name         Handling Rod (bit)       Mud       50#       Image: Size       Image:	on         Size         Name         Number of Unit           50#
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Mud       100#	Mud       100#	100#           escribe)           id         5 gaL
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- Prep Hole & Grout       Water hauling miles loads         - Setting	- Prep Hole & Grout       Water hauling miles loads         - Setting       Core boxes: size/ no.         - Drilling       Length of waterline:         Aoving - Hole to Hole       Lost tools: Description         Bigging Up - Rigging Down       Image: Size in the size in	OTHER
- Prep Hole & Grout     Water hauling miles loads       - Setting	- Prep Hole & Grout       Water hauling miles loads         - Setting       Core boxes: size/ no.         - Drilling       Length of waterline:         Moving - Hole to Hole       Lost tools: Description         Bigging Up - Rigging Down       Image: Size in the size in	UTHER
- Setting       - Orilling       - Setting       - Setting       - No.         - Drilling       - Drilling       - Length of waterline:	- Setting     - Core boxes:     size/no.       - Drilling     - Length of waterline:	uling miles loads
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Rigging Up - Rigging Down         Aix Mud         Condition Hole_Lost Circulation         Surveying, Inclination Test         Mobilization/Demobilization         Other (Explain)         Image: Size Serial no.         Image: Size Serial #	Rigging Up - Rigging Down       Serial no.         Aix Mud       Image: Serial no.         Condition Hole, Lost Circulation       Image: Serial no.         Surveying, Inclination Test       Image: Depth:ft. Hole #         Mobilization/Demobilization       Image: Depth:ft. Hole #         Other (Explain)       Image: Size imag	f waterline:
Rigging Up - Rigging Down         Mix Mud         Condition Hole_Lost Circulation         Surveying, Inclination Test         Mobilization/Demobilization         Other (Explain)         Image: Size Serial no.         Image: Size Serial #	Rigging Up - Rigging Down       Image: Second	: Description
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Surveying, Inclination Test       Depth:ft. Hole #         Mobilization/Demobilization       Casing lost or left in hole: Sizeft         Other (Explain)       Image: Casing lost or left in hole: Sizeft         Image: Casing lost or left in hole: Sizeft       Image: Casing lost or left in hole: Sizeft         Image: Casing lost or left in hole: Sizeft       Image: Casing lost or left in hole: Sizeft         Image: Casing lost or left in hole: Sizeft       Image: Casing lost or left in hole: Sizeft         Image: Casing lost or left in hole: Sizeft       Image: Casing lost or left in hole: Sizeft         Image: Casing lost or left in hole: Sizeft	Surveying, Inclination Test       Depth       ft. Hole #         Mobilization       Casing lost or left in hole: Size       ft.         Other (Explain)       Image: Size       Size         Image: Size       Serial #       Depth         Image: Size       Image: Size       Serial #         Image: Size       Image: Size       Serial #         Image: Size       Image: Size       Serial #         Image: Size       Image: Size       Image: Size         Image: Size       Im	re of sourcements to work how on granness to
Mobilization/Demobilization       Casing lost or left in hole: Sizeft         Other (Explain)       Casing lost or left in hole: Sizeft         Image: Size	Mobilization/Demobilization       Casing lost or left in hole: Size ft         Other (Explain)       Casing lost or left in hole: Size ft         Image: Size Serial # Depth       Longco         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth       Image: Size Serial # Depth         Image: Size Serial # Depth	
Dther (Explain)     for Client     Hole #       Image: Size Serial # Depth     Bit changes: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth     Image: Size Serial # Depth       Image: Size Serial # Depth	Other (Explain)     Gashing lost of reft in rice. Size       for Client     Hole #       Longco     Hole #       Bit changes:     Size       Size     Serial #       Driller's Initials     Image: Size       Shift     DRILLERS       Hrs.     HELPERS       Hrs.     TRUCK DRIVERS       Hrs.     TRUCK DRIVERS       Hrs.     Secharder       B     Image: Size	
Longco     Hole #       Bit changes:     Size       Image:     Size	Image: Congression of the state of the s	st or left in hole: Size ft
Bit changes:     Size     Serial #     Depth       Image:     Image: <td>Image: Size     Size     Serial #     Depth       Image: Size     Image: Size     Serial #       Image: Size     Image: Size     Size       Image: Size     Image: Size     Size       Image: Size     Image: Size     Size       Image: Size     Image: Size     Image: Size       Image: Size     Image: Size    <tr< td=""><td>Hole #</td></tr<></td>	Image: Size     Size     Serial #     Depth       Image: Size     Image: Size     Serial #       Image: Size     Image: Size     Size       Image: Size     Image: Size     Size       Image: Size     Image: Size     Size       Image: Size     Image: Size     Image: Size       Image: Size     Image: Size <tr< td=""><td>Hole #</td></tr<>	Hole #
Total Hours     Image: Constraint of the second secon	Total Hours     Image: Constraint of the second secon	ngconole#
Total Hours     first bit in hole)       Driller's Initials     Driller's Initials       Shift     DRILLERS       A     P. L. Schorder       8     J. Rosenburg	Total Hours     first bit in hole)       Driller's Initials     Image: Shift DRILLERS       A     P. L. Schorder     St. Driller's Initials       B     Image: Shift Driller's Initials	
Total Hours     Inhole       Driller's Initials     Inhole       Shift     DRILLERS       A     P. L. Schorder       8     J. Rosenburg	Total Hours     Inhole       Driller's Initials     Inhole       Shift     DRILLERS       A     P. L. Schorder       B     Inhole	
Shift DRILLERS Hrs. HELPERS Hrs. TRUCK DRIVERS Hrs. A P.L. Schorder & J. Rosenburg & J.	Shift     DRILLERS     Hrs.     HELPERS     Hrs.     TRUCK DRIVERS     Hrs.       A     P. L. Schorder     8     J. Rosenburg     8     1       B     1     1     1     1     1	o. Terre bated in the Hourry distribution tobards.
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A P.L. Schorder 8 J. Rosenburg to 8 T	A P.L. Schorder B J. Rosenburg To Barton	Hrs. TRUCK DRIVERS
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Remarks: Condition Hole, greese by od (RA)		
	Remarks: Condition Hole, greese grod (R)2)	bit ole)

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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         ZC/L - 1         H II         MQm         2.574         ZF         2.6         Z.2           Aft         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B	Day       201-1       + 11°       Alger       259         Aft       Image: State Sta	Description       Portland       Lumnite       Calseal       Mud       Other (Desc       £Z mm 0	Rea From Si Si 50# 100# cribe)	To 	Drilled or Reamed	Core Re- covered	in Size	Hole Footage
Day         Profin         To         Profin         To         Preame         Covere         Size         Process           Aft         Nite         Aft         Nite         Aft         Aft         Aft         Nite         Name         Aft         Nite           Hourly Distribution         Day         Aft         Nite         Aft         Name         Aft         Nite         Name         Number of Units           Verburden - rock bit         Dataring Maing Rod (bit)         Mud         100#         Image: Aft         Nite         Name         Number of Units           Product         Mud         100#         Image: Aft         Mud         100#         Image: Aft         Image: Aft         Image: Aft         Image: Aft         Image: Aft         Image: Aft <th>Day       201-1       + 11°       Alger       259         Aft       Image: State Sta</th> <th>To</th> <th>From 50# 100# cribe)</th> <th>To </th> <th>Reamed</th> <th>ed Day Nu</th> <th>Aft.</th> <th>. Nite</th>	Day       201-1       + 11°       Alger       259         Aft       Image: State Sta	To	From 50# 100# cribe)	To 	Reamed	ed Day Nu	Aft.	. Nite
A       Part + HP       Marr       23.5.7       Product       2.6       A.4         Aft       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B       B	A       POP-1       HIP       MQPL       25.7         Aft       B       Image: Strategy of the	Description Portland Lumnite Calseal Mud Other (Desc EZ mu )	n Si  50# 100# cribe)	ze	lies Consum Product Name	ed Day Nu		
B       Image: Construction of the second seco	B       Alternal         Nite C       Aft.       Nite         B       Aft.       Nite         C       Aft.       Nite         Core Drilling       Aft.       Nite         Handling Rod (change bit)       Aft.       Nite         Ourburden - rock bit       A       A         Duerburden - rock bit       A       A         Collaring Hole - Dia. bit       A       A         Rotary Drilling       A       A         Handling Rod (bit)       A       A         Rock Bit - Overburden       A       A         Reaming ( to )       A       A         Cementing - Placing       A       A         Pulling       A       A         Delays - Client Acct.       A       A         Cementing - Handling Rods       A       A         Average       A       A       A         Automa - Setting       A       A       A         Average       A       A       A         Average       A       A       A         Automa - Setting       A       A       A         Average       A       A       A       A	Portland Lumnite Calseal Mud Other (Deso <u>EZ male</u> Water hauli Core boxes	n Si  50# 100# cribe)	ze	Product Name			
C       Dark       Aft.       Nite       Supplies Consumed         Dore Drilling       2       Product       Product       Day       Aft.       Nite         Der Drilling       2       Product       Product       Day       Aft.       Nite         Der Drilling       2       Product       Product       Day       Aft.       Nite         Der Drilling       2       Product       Name       Product       Product       Name       Product       Product       Name       Product       Name       Product       Product       Name       Product       Product       Product       Product       Product       Product       Product<	C       Hourly Distribution       Day       Aft.       Nite         Core Drilling       5       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - </td <td>Portland Lumnite Calseal Mud Other (Deso <u>EZ male</u> Water hauli Core boxes</td> <td>n Si  50# 100# cribe)</td> <td>ze</td> <td>Product Name</td> <td></td> <td></td> <td></td>	Portland Lumnite Calseal Mud Other (Deso <u>EZ male</u> Water hauli Core boxes	n Si  50# 100# cribe)	ze	Product Name			
Hourly Distribution       Day       Aft.       Nite       Supplies Consumed         Care Drilling       2	Hourly Distribution       Day       Aft.       Nite         Core Drilling       5	Portland Lumnite Calseal Mud Other (Deso <u>EZ male</u> Water hauli Core boxes	n Si  50# 100# cribe)	ze	Product Name			
Dere Drilling     S     Product     Day     Aft.     Nite       Handling Rod (change bit)     A     Description     Size     Name     Number of Units       Dorburden - rock bit     Description     Size     Name     Number of Units       Datary Drilling     Calseal     Image: Size     Name     Number of Units       Rock Bit - Overburden     Mud     50///     Image: Size     Image: Size     Image: Size       Reaming ( to )     Mud     50///     Image: Size     Image: Size     Image: Size     Image: Size       Pulling     Image: Size     Mud     50///     Image: Size     Image: Size     Image: Size       Pulling     Image: Size     Mud     50///     Image: Size     Image: Size     Image: Size       Delays - Client Acct.     Image: Size	Core Drilling   Handling Rod (change bit)   Werburden - 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	Portland Lumnite Calseal Mud Other (Deso <u>EZ male</u> Water hauli Core boxes	n Si  50# 100# cribe)	ze	Product Name			
Handling Rod (change bit)       Description       Size       Name         Overburden - rock bit       Portland       Portland         Olaring Hole - Dia. bit       Lumnite	Handling Rod (change bit)       2         Overburden - rock bit       2         Collaring Hole - Dia. bit       2         Rotary Drilling       3         Handling Rod (bit)       3         Rock Bit - Overburden       3         Reaming ( to )       3         Casing - Placing       3         - Pulling       3         Delays - Client Acct.       3         Cementing - Handling Rods       3         - Prep Hole & Grout       3         - Setting       3         - Drilling       3         Moving - Hole to Hole       3         Rigaing Up - Rigging Down       3         Mix Mud       3         Condition Hole, Lost Circulation       3         Surveying, Inclination Test       4         Mobilization/Demobilization       4	Portland Lumnite Calseal Mud Other (Deso <u>EZ male</u> Water hauli Core boxes	n Si  50# 100# cribe)		Name			
Jurefurden - rock bit       Portland         Otary Drilling       Lummite         Rock Bit - Overburden       Mud         Handling Rod (bit)       Mud         Rock Bit - Overburden       Other (Describe)         Reaming ( to )       EZ mit A Spit         - Pulling       -         - Prep Hole & Grout       -         - Setting       -         - Dord back Grout       -         - Setting       -         - Ord back Grout       -         Moving - Hole to Hole       -         Core boxes:       size/         Stools: Description       -         Stools: Description       -         Stools: Description       -         Stools: Description       -         Caing lost or left in hole: Size       ft.         - Other (Explain)       -	Overburden - rock bit   Collaring Hole - Dia. bit   Rotary Drilling   Handling Rod (bit)   Rock Bit - Overburden   Reaming ( to )   Reaming ( to )   Casing - Placing   - Pulling   Delays - Client Acct.   Cementing - Handling Rods   - Prep Hole & Grout   - Setting   - Drilling   Aving - Hole to Hole   Rigging Up - Rigging Down   Aix Mud   Condition Hole, Lost Circulation   Surveying, Inclination Test   Mobilization/Demobilization	Lumnite Calseal Mud Other (Desc <u>EZ male</u> Water hauli Core boxes	100# cribe)	en nebr <u>oit</u> ou science	trans erain 100 100 100 100 100 100 100 10			
Notary Drifting       Calseal         Handling Rod (bit)       Mud         Rock Bit - Overburden       Other (Describe)         Reaming ( to )       EZ mut d         Saing – Placing       //         -Pulling       //         Delays - Client Acct.       //         Delays - Client Acct.       //         Delays - Client Acct.       //         Dementing - Handling Rods       //         - Prep Hole & Grout       Water hauling miles loads         - Setting       Core boxes:         - Setting       Length of waterline:         Moving - Hole to Hole       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 #         Shipe Rody       Intelages         Driller's Initials       Z/Z/Z         Shift       DRILLERS         Hrs.       HELPERS         Hrs.       TRUCK DRIVERS         B       TRUCK DRIVERS	Rotary Drilling	Calseal Mud Other (Deso <u>EZ mu e</u> Water hauli Core boxes	100# cribe)	en nebr <u>oit</u> ou science	uni Solution Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Mar			
Mud       50#         Handling Rod (bit)       Mud         Rock Bit - Overburden       Other (Describe)         Rearing ( to )       EZ mud         Casing – Placing       /         - Pulling       /         Delays - Client Acct.       //         Delays - Client Acct.       //         - Prep Hole & Grout       //         - Setting       //         - Drilling       Core boxes:         Water hauling miles loads         - Drilling       Length of waterline:         Modilization/Demobilization       Lost bits: Size Serial no         Depth:	Handling Rod (bit)       Image: Straig	Mud Mud Other (Desc <u>EZ mul</u> Water hauli Core boxes	100# cribe)	en nebr <u>oit</u> ou science	Constant In all betrace benistores benistores benistores benistores benistores benistores benistores			
Rock Bit - Overburden       Mud       100#	Rock Bit - Overburden         Reaming ( to )         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	Mud Other (Desc <u>EZ inst i</u> Water hauli Core boxes	100# cribe)	en nebr <u>oit</u> ou science	n ni bornes b ni loxa b ano T ni bi yini averes transcores transcores transcores transcores transcores			
Rock Bit - Overburden       Other (Describe)       Image: Client of the second	Reaming ( to )	Other (Desc <u>EZ mt P</u> Water hauli Core boxes	cribe)	90-1000 <u>-000</u>	ann Talleu Sinn Talleu Sinn Steino Talleu Sinn Stalleu Sinn Stalleu			
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Casing - Placing	- Pulling         Delays - Client Acct.         Delays - Client Acct.         Dementing - Handling Rods         - Prep Hole & Grout         - Setting         - Drilling         Aoving - Hole to Hole         Rigging Up - Rigging Down         Aix Mud         Condition Hole, Lost Circulation         Surveying, Inclination Test         Mobilization/Demobilization	Water hauli		र महत्व सम्प्रमानस्य सम्प्रमानस्य स्व		The second se	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	
Delays - Client Acct.	Delays - Client Acct.	Core boxes	<u>स्वाम् वृत्तव</u> स <u>वव्य</u> वृत्तव			TAL STREET	1000	TALLA TOTAL OF ALL OF
Cementing - Handling Rods       OTHER         - Prep Hole & Grout       Water haulingmilesloads         - Setting       Core boxes:size/no.         - Drilling       Length of waterline:         Moving - Hole to Hole       Lost tools: Description	Cementing - Handling Rods	Core boxes	स्ट्रांस् व्याप्त सन्द्रास्य व्याप्त	ns or Au	Call and still			-
- Prep Hole & Grout       Water hauling miles loads         - Setting	- Prep Hole & Grout       - Setting       - Drilling       Aoving - Hole to Hole       Rigging Up - Rigging Down       Aix Mud       Condition Hole, Lost Circulation       Surveying, Inclination Test       Mobilization/Demobilization	Core boxes	<u>trannintiss</u>	In sugar the		Tex Plan pitti		
- Prep Hole & Grout       Water hauling miles loads         - Setting	- Prep Hole & Grout       - Setting       - Drilling       Aoving - Hole to Hole       Rigging Up - Rigging Down       Aix Mud       Condition Hole, Lost Circulation       Surveying, Inclination Test       Mobilization/Demobilization	Core boxes		135118 (J.C.)	OTHER	No Co It we	110 M	-
- Setting     Core boxes:	- Drilling     Aoving - Hole to Hole     Aigging Up - Rigging Down     Aix Mud     Condition Hole, Lost Circulation     Surveying, Inclination Test     Aobilization/Demobilization	Core boxes Length of v	ing	m		loa	ds	
Moving - Hole to Hole	Moving - Hole to Hole	Length of v	10112-0401	siz		Could and the standard -		
Rigging Up - Rigging Down	Rigging Up - Rigging Down     Image: Constraint of the second secon		waterline:	su curter	ard fines a	NS 25VITICA	4 10 ²	
Mix Mud       Lost Diriculation       Lost bits: Size       Serial no.	Aix Mud Aix Mud Aix Annu Aix A	Lost tools: I	Descriptio	on	ALCONT SHOLE	Controlelle		
Condition Hole, Lost Circulation	Condition Hole, Lost Circulation	soi sécoliaria	US BROOK	10-10	alen mas an	apriliant	10 91 9	1
Surveying, Inclination Test       Depth:       ft. Hole #         Mobilization/Demobilization       Casing lost or left in hole: Size       ft.         Other (Explain)       Image: Size       Image: Size       ft.         Shipe Reds       Image: Size       Serial #       Depth         Image: Size       Serial #       Depth       Image: Size         Image: Size       Serial #       Depth       Image: Size       Serial #         Image: Size       Image: Size       Serial #       Depth       Image: Size         Image: Size       Image: Size       Image: Size       Serial #       Depth         Image: Size       Image: Size       Image: Size       Serial #       Depth         Image: Size	Nobilization/Demobilization	Lost bits: S	Size	Se	erial no.	Bul anivar	K Sun	
Other (Explain)     O     o       Shipe Rads     O     -       Shipe Rads     O     -       Shipe Rads     O     -       Image: Size Serial # Depth     Bit changes: Size Serial # Depth       Image: Image: Size Serial # Depth     -       Image: Size Serial # Depth <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>14- 14- 14- 15-</td>								14- 14- 14- 15-
Shipe Rads     Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Shipe Rads     Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Bit changes: Size Serial # Depth     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads     Image: Shipe Rads     Image: Shipe Rads       Image: Shipe Rads	Other (Explain)							
Bit changes:     Size     Serial #     Depth       Image: Size     Size     Serial #       Image: Size     Serial #     Depth       Image: Size     Size     Serial #       Image: Size     Size     Serial #       Image: Size     Size     Serial #       Image: Size     Size     Size       Image: Size     Size		for Clie	ent	Hole	#	.syoch	und an	
Image: Constraint of the second se	Shipe Reds			Hole	#	Donth	630 - 29-	
Total Hours     Image: Shift     Total Hours     Image: Shift       Driller's Initials     Differ Stritting     Differ Stritting       Shift     DRILLERS     Hrs.     HELPERS       A     P.L. Schrothte     B       B     Image: Shift     Image: Shift		and the second se	5. SI	wi la	Serial #	sq		
Driller's Initials     PLD       Shift     DRILLERS       A     P.L. Schrotht       B     B			7. 4	<u></u>	<u> </u>	10		
Shift     DRILLERS     Hrs.     HELPERS     Hrs.     TRUCK DRIVERS     Hrs.       A     P.L. Schrotht     8     J. Rosenburg     8     1       B     0     0     0     0     0	Total Hours	in hole)	unokoo ne	distantian.	o Autou out	e listad a		
A P.L. Schrolder & J. Rosenburg &	Driller's Initials		OT CHA	170 130	N SETUR	teni dera		
A P.L. Schrolder & J. Rosenburg &	40.22	PERS	N IN COLOR	Hrs.	TRU	CK DRIVE	RS	Hrs
	A P.L. Schoolder 8 J. Rosenk		1STATI		21.1			

CLIENT

MARMOG MARYONO.

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 6 Type       Footage Summary       Feet       Total Casing in Hole         Day A       207-7       41       27.9       70       From       To       Froduct       Froduct       Froduc	Contrac Locatio	n: Jeron	r t	# Z · Ariz	ONA F	ate: <u>9</u> oreman	ONTH Sign	DAY DAY	nnesota 554 19 <u>85</u> Bril	LA LA	737 TYPE	1 00 DR	D6 IILL NO.		JCK NO.
Shift         Hole No.         Material Drilled         Bit Size R Type         Drilling         Reaming From         To         From         To         Reamed Reamed         Covered Size         Size Fortage           Day A         A         Differs         Differs         To         From         To         Reamed         Covered         Size         Fortage         Size         Number of Units         Size		and Burnet	1 1	a deservation	White Hand	e epite	ingles rep	-0	1	Calmer Mar 13		1	51107.20	and the	
Nom         10         10         10         10         Nearing         Coverage         alse         Product           A         201-1         11         000000         218         259         41         47         47           Aft         8         10         10         10         47         47         47           Nite         5         10         10         10         47         47         10           Nite         5         5         10         10         10         10         10         10         10           Handling Rod (change bit)         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         <	Shift	Hole No.	ngle	Mate	rial Drilled				rilling	Re		Drilled or	and the second sec	a martin and a second	Hole
A         ZPP / I         OUGGE         C1B         C3T         TI         V/           Aft         B         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I		ant load	4		dionani u m	a	Type	From	То	From	То	Reamed	covered	Size	Footage
B       Image: Construction of the second seco	Day A	901-1	+110	ntine Un	u Herboon s	NG	PWL	218	259	ं जावदर व	113 5110	41	41	nd vor	
C       Day       Aft.       Nite       Supplies Consumed         Dore Drilling       Ø       Product       Day       Aft.       Nite         Handling Rod (change bit)       Description       Size       Name       Day       Aft.       Nite         Description       Size       Name       Day       Aft.       Nite       Description       Size       Name       Number of Units         Oblaring Hole Dia.bit       Lumnite       Calseal		- prilprister	508.80	or gallo	te speitt hat	nas fejad	X5. 4711	TOS OFFICIE	al actuaries	Mentus a	10 De s	NLMG 200	Park PARY DR	CIA .d CIA .d	
Dore Orilling         Product         Day         Aft         Nite           Handling Rod (change bit)         Description         Size         Name         Number of Units           Dotating Hole - Dia, bit         Description         Size         Name         Number of Units           Data ing Hole - Dia, bit         Description         Size         Name         Number of Units           Mandling Rod (bit)         Mud         50/#         Image: Size         Number of Units           Handling Rod (bit)         Mud         100/#         Image: Size         Image: Size         Image: Size           Rock Bit - Overburden         Other (Describe)         Eine - Paing         Image: Size         Image	Nite C	e lost teln -	for ab a	also Incl			i abura	elena do		graigent i	1.79GP	Sing work notalgates no	ating Hore of hole up of hole up	Blar Out Rife	
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Contract: Budge # 2	Minne Date: 9-	General apolis, Mi	nnesota 554	14 Ln	137	100			REPORT
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and an and the state of the sta	the spice of the second	10	Footage S	ummary	- preside file	Fe	et	Tota	I Casing
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Shift     Hole No.     P     Material Drilled     Bit Size & Type     Drilling From       Day A     904/     //     00000     95     130       Aft B     00000     95     130       Aft B     00000     95     130       Nite C     00000     95     130       Handling Rod (change bit)     00000     95     130       Werburden - rock bit     00000     90     90       Core Drilling Handling Rod (bit)     00000     90     90       Water Drilling Calseal     00000     90     90       Handling Rod (bit)     00000     90     90       Mud     00000     90     90       Calseal     00000     90     90       Calseal     00000     90     90       Calseal     00000     90     90       Mud     00000     90     90       Casing - Placing     00000     90       Caleays - Client Acct.     000000     90       Core b     0000000     90     90       Core b     00000000     90     90       Casing - Place & Grout     0000000     90       Core b     0000000000000     90       Core b     000000000000000000	ion	Reaming rom To 	Drilled o	3.5 ned Day	in Size	I Casing Hole Footage
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Contract	a	ne,	#2 ARizo	1	ate: MO		the second second	985 Drin	procle	37 ГҮРЕ	1	ILL NO.		UCK NO.
Shift	Hole No.	Angle	Mate	rial Drilled		Size Type	Dr	Footage S illing To		ming To	Drilled or Reamed	Core Re- covered		Al Casing Hole Footage
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	g Hole - Dia.	bit				-		Lumnite	-	<u> </u>	i neni	er right c	Di Martina (	
	Drilling ling Rod (bit)		i Altrane	ilite attanti	Production			Calseal Mud	50#	<u></u>	Andre Colo	- 0 17 - 270	E Ang	
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Rock	Bit - Overbui	rden						Other (De		an men <u>tiki</u>	Daugur L	1 1000 H	- 72. 	
eaming		- 10 1940	)	and the day of the sec		1.1141		ALTA COP. SIL	- gointais -	ad tuads	Stars - Maran			
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ement	- Prep Ho			ANIE 1200 TO	1 1 1 11	3411-13	eriter ying	Water hau	ina	m	iles	loa	ds	
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Contract	: Budge	o #	12	D	ate:	9- IONTH	13 DAY	9 <u>85</u> Dril	<u></u>	7.37 TYPE		06 HILL NO.	/	UCK NO.
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Rock	Bit - Overbu	rden						Other (De	cribe)		DBRIGRAD	<u>26</u> 3972099	1.00	
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and the second second	ation/Demob Explain)	lizatio	on	ningia refini	e surtine	in solve	n <u>aran Ba</u>				ze			
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Contract Location	: Budg	e à	# 2 Ariz	Da	ate: <u>Mo</u> preman'	S Sign	DAY ature:	9 25 Dril	Lm biorde			ILL NO.	TR	UCK NO.
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	and training	01.040	n all gris	COUNCIL IN THE	LIN SHELD	THE R	From	То	From	То	Reamed	covered	Size	Footage
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Aft B	. proprieto	ne ca	or pailba	ord thoose en	it ideor	is vity	tas grillit	ा भा स्वकृत्व	Jacuite 96	it lle wo	1.2.1991.2.10	NU YHAT	UR a	
Nite	. [481 b7p	(†. etj. (	ioni ceta	Www.eirff).cm	n , Sdut	Aresta	ugnada 1	ittids for 1	salaqını n	spent 1 ao	त्य म्यावर्तद्वः २२ त्य अवस्थाव्य वय	्या भावत् हिंदा हार भावत् ह	neH Tuo	
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	24.	1		C	>	C	ontracting General (	Office		0	1-101 -			. REPORT"
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- Setting	14039653 2003	Park 191 01	VIA: NO DA				zel HQ	no.		
- Drilling Moving - Hole to Hole				Length of Lost tools:				1000 C		
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Day A       HG       155       190       35       155         Aft B       Image: Second	DRILL REPOR
Shift       Hole No.       Baterial Drilled       Bit Size & Type       Footage Summary       Feet         Day       401-2       410       410       755       190       33       75         Day       4       410       755       190       33       75       190       33       75         At       4       410       755       190       33       75       190       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100       100 </th <th>TRUCK NO.</th>	TRUCK NO.
Shift     Hole No.     P     Material Drilled     Bit Size & Type     Drilling     Reaming     Drilled or Reamed     Core Re- covered       Day A     401-3     400     33     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35     35	Total Casing
Aft     HG     IS     Profin     IS     Profin     IS     Reamed     Covered       Aft     HG     ISS     HQ     ISS     IS     ISS     IS	in Hole
Day       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A	Size Footag
B       Image: Supplex consumed consupression consumed consumed consumed consume	
B       Image: Construct of the second	
C       Hourly Distribution       Day       Aft.       Nite       Supplies Consumed         Core Drilling       ////////////////////////////////////	
Core Drilling       7       Description       Size       Product       Day         Mandling Rod (change bit)       Overburden - rock bit       Portland       Name       Num         Overburden - rock bit       Ummite       Portland       Image: Collaring Hole - Dia. bit       Image: Collaring Hole - Dia. bit </td <td>alter en la seconda de la s La conducta de la seconda de</td>	alter en la seconda de la s La conducta de la seconda de
Core Drilling       7       Description       Size       Product       Day         Handling Rod (change bit)       Overburden - rock bit       Portland       Name       Num         Collaring Hole - Dia. bit       Lumnite       Calseal       Cals	
Handling Rod (change bit)       Description       Size       Name       Num         Overburden - rock bit       Portland       Portland       Image: Size       Num         Collaring Hole - Dia. bit       Image: Size       Num       Num       Num         Rotary Drilling       Image: Size       Num       Image: Size       Num         Handling Rod (bit)       Image: Size       Image: Size       Num       Image: Size       Num         Handling Rod (bit)       Image: Size       Image: Size<	Aft. Nit
Collaring Hole - Dia. bit       Lumnite         Rotary Drilling       Calseal         Handling Rod (bit)       Mud         Software       Mud         Mud       100#         Rock Bit - Overburden       Other (Describe)         Reaming (       to         - Pulling       -         Delays - Client Acct.       -	nber of Units
Rotary Drilling     Calseal       Handling Rod (bit)     Mud     50#       Mud     100#       Rock Bit - Overburden     Other (Describe)       Reaming ( to )     Image: Construction of the second seco	an and
Handling Rod (bit)       Mud       50#         Handling Rod (bit)       Mud       100#         Rock Bit - Overburden       Other (Describe)         Reaming ( to )       Image: Client Acct.       Image: Client Acct.	1
Number (arc)     Mud     100#       Rock Bit - Overburden     Other (Describe)     Image: Client Acct.	13
Rock Bit - Overburden     Other (Describe)       Reaming ( to )     Image: Constraint of the second	
Reaming ( to )	
- Pulling	
Delays - Client Acct.	
Cementing - Handling Rods	
	148
- Prep Hole & Grout Vater hauling miles loads	57
- Setting Core boxes: Na size/ no.	
- Drilling Length of waterline:	MA CONTRACTOR
Moving - Hole to Hole         Lost tools: Description           Rigging Up - Rigging Down	
Mix Mud	te te
Condition Hole, Lost Circulation Lost bits: Size Serial no.	2
Surveying, Inclination Test Depth: ft. Hole #	
Mobilization/Demobilization Casing lost or left in hole: Size ft	And the second second
Other (Explain)         for Client         Hole #           Move/mg hobs         Longco         Hole #	
Longco     Hole #       Bit changes:     Size       Size     Serial #       Depth	in the second
first bit	
Total Hours in hole)	
Driller's Initials 98/6	
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Shift         Hole No.         Reterial Drilled         Bit Size & Type         Domining         Reaming         Differior         To         From         From         To         From         From         From         From         From         From         From	Shift         Hole No.         Material Drilled         Bit Size 8 Type         Drilling         Reaming From         To         From         To         From         To         Form         To         For         Form         Form         Fo	1.84 (284 C	TITLE AND BRIDE	1	610 20 20 E	ne waterneda		- le st	1985 Drill Jack 1	SPACE AND		E	et	Tota	I Casing
And         And <th>Image: state of the s</th> <th>Shift</th> <th>Hole No.</th> <th>ngle</th> <th>Mater</th> <th>ial Drilled</th> <th>The second se</th> <th>the second s</th> <th>rilling</th> <th></th> <th>ming</th> <th></th> <th></th> <th></th> <th></th>	Image: state of the s	Shift	Hole No.	ngle	Mater	ial Drilled	The second se	the second s	rilling		ming				
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C       Supplies Consumed         Hourry Distribution       Day       Aft.       Nite       Supplies Consumed         Cere Drilling       Aft.       Nite       Product       Pay       Aft.       Nite         Handling Rod (change bit)       Description       Size       Name       Portland       Number of Units         Outputten - rock bit       Calseal       Mud       50/#       Name       Number of Units         Other (Description       Size       Name       Number of Units       Image: Calseal       Image: Calseal       Image: Calseal         Handling Rod (bit)       Mud       100/#       Other (Describe)       Image: Calseal	C       Aft.       Nite       Supplies Consumed         Core Drilling       Aft.       Nite       Product       Day       Aft.         Handling Rod (change bit)       Description       Size       Name       Number of Uni         Outrourden - tock bit       Description       Size       Name       Number of Uni         Collaring Hole - Dia. bit       Calseal       Number of Uni       Number of Uni         Cortary Drilling       Mud       50#       Image: Size       Number of Uni         Rock Bit - Overburden       Mud       100#       Image: Size       Image: Size       Image: Size         Rock Bit - Overburden       Other (Describe)       Image: Size       Image: Size <td< td=""><td>A PERSON NEW YORK OF THE PERSON</td><td>100000gelij</td><td>11790 B</td><td>srige Roo</td><td>10 10 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td>us fire de ch</td><td>S lear a di la</td><td></td><td>TILL D.S. R. P. P.</td><td>ar Nei vez</td><td>1.2754.4.2</td><td>UID TAYAAD</td><td>ugo Chiloda The</td><td></td></td<>	A PERSON NEW YORK OF THE PERSON	100000gelij	11790 B	srige Roo	10 10 10 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0	us fire de ch	S lear a di la		TILL D.S. R. P. P.	ar Nei vez	1.2754.4.2	UID TAYAAD	ugo Chiloda The	
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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.