Contracting Division
General Office

Minneapolis, Minnesota 55414

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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9	2.0.001 EV	PROPERTY OF THE	Dia Cira	-	Footage :				et		Casing
Shift	Hole No.	Angle	Mater	rial Drilled	Bit Size & Type	From	rilling To	From	ming	Drilled or Reamed			Hole Footage
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Nite C			000 (53%) 			servida i		grotiant i	1 (1000) 3 2 (1000) 4 (1000) 1100	n i valde s n komes no			
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Core D	rilling	2 1 3/4	T ARRIVE IN	5	e continue all	orige for all	orn Tales	78E-01-8"	st right of	Product	Day	Aft.	Nite
	dling Rod (ch		t)				Description	n de b	Size	Name	Nu	mber of	Units
	rden - rock b	Contractor and the Contractor	ne branches	Transfer to	SEAT LESS ON	my her over	Portland	egratto cio		Anna Carlos	-10 -100 -100		
	ng Hole - Dia.	bit					Lumnite Calseal			196	ng dan te		
	Drilling	1					Mud	50	#		15	100	
Hand	dling Rod (bit	-)	unios de la	\$ 100 (B) (B) (B)	(Vesigna)		Mud	100	The second second		-		
Rock	k Bit - Overbu	ırden					Other (De	scribe)					
Reamir		T GOTT)										
	- Placing		ER HTATE	STREET, ST.	800 to 10 to	CONTRACTOR	A57 D. D. D.	148274 3513	W Dasign	1471-2409CE	(E.A.) (2) (H)		
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		O THE	un Budan	100000000000000000000000000000000000000		302 3110	3 (20) 313 (20)	Partition of the	TELEPINE VE				
Cemen	ting - Handlin	AND RESIDENCE OF THE PARTY OF T	THE RESERVE OF THE PERSON NAMED IN							OTHER			
	- Prep Ho	ole & G	rout	The Gallery			Water hau	ling	m	ze/ H	loa		
	- Setting	d sales	612 (9-29)	SUBJECT 2011	GRANDLER OF	974147 (BOX 10)				ze/			
Movins	- Drilling - Hole to Ho						Lost tools					5162	
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Mix Mu		DOWN	40.76		nembana	0(50)192545	e de la ferra de	and profit	a) 10 (15 7a)	Hod William	, poetent	4.56	
Condit	ion Hole, Los	t Circu	lation	Let the Arm		art militie	Lost bits:	Size	S	erial no	al crives	n (state)	
	ing, Inclination									lole #			
	zation/Demol	oilizatio	on			il mesent	Casing los	t or left in	hole: Siz	ze	ft		
Other	(Explain)							lient		-		Page 1	
		1 11 11		Service Service	25.00	Markey,				#			
							Bit chang	es:	Size	Serial #	Depth	2	
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Contra	ct: Dyc	790	X	·D	oreman's Sign	DAY	9 2 Dri	1 0	TYPE	DF	ILL NO.	TR	UCK NO.
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					& Type	From	То	From	То	Reamed	covered	Size	Footage
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	dling Rod (cl	nange l	oit)				Description	on Si	ze			umber o	THE RESIDENCE OF THE PARTY OF T
	urden - rock l						Portland						
Collari	ng Hole - Dia	a. bit					Lumnite						
_	/ Drilling						Calseal	50/		100 To	100	0 0 0	
Hane	dling Rod (b	it)					Mud Mud	100#			-		
Roc	k Bit - Overb	urden					Other (De		or no a -				
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	- Placing	(Ashres)	of the later of	Bishacus th	0916 (01-1291)	183-1816/19	125 V (1911 - 61	mylights (back)	N. Johnson	smit shoulds	an TELEPHIN	2000年	
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Mix M	ud tion Hole, Lo	ort Circ	ulation		210 Hericola	12 pt	OF WINDS	C:	0	2007 439 31	- grothor.	ed Die	
	ing, Inclinat			18 7 908 1001	E.S. (20115) 24	10.15 H. H.	THE RESERVE THE PARTY OF THE PA	The second secon		erial no lole #			
	zation/Demo									ze			
Other	(Explain)						for C	lient	Hole	#	to robbin		
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		Total	Hours	10.1.			in hole)						
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A	J.R.	H	AYS	/iP	8 W.	R. 1	41115		0	53.3			
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Contrac	on: Jetob	ie.	U.G.	Z , F	ate: //	H	B 1	9 <u>85</u> Dri	74 sk	TYPE	rill DF	704 RILL NO.	/ TR	UCK NO.
Shift	Hole No.	Angle	0.010	rial Drilled	Bit Si		Man gi		Summary	ming		et	Tota	al Casing Hole
Silit	Hole No.		iviate	riai Drilleu	& Ty	pe F	rom	То	From	To	Reamed	CONTROL OF THE REAL PROPERTY.	Size	Footage
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	Hourly Distril	bution	THE COST	Day	Aft.	Ni	te			Suppl	ies Consum	ed -	307	
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The second second	lling Rod (cha		oit)					Description	n Si	ze	Name	Nu Nu	mber o	f Units
	rden - rock bi		Last Hancel Sta	of Spotters.	rana James			Portland	galena is	gary step	Topics aution.	wa di zoni	0.6	
	ng Hole - Dia. Drilling	bit						Lumnite Calseal			ibm)	GO THUST THE	8 10	
	lling Rod (bit)						Mud	50#		doct shop	- Clip 100	10.6	
								Mud	100#		e ou ballana	to notomize	LA S	
Rock	Bit - Overbu	rden						Other (De	scribe)					
Reamir)					A MARKA METERS	MINUTES A	Sales I Sales				
	- Placing	is late.	e annual tra	(401302211) 14	SH 115 U.) 18		COMPLEA	(1) The rest of the	MUSIC HOLE	111308	SHKID CESVOO	CIPI ABINE	Bri B	
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 Other:

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LONGYEAR COMPANY Contracting Division General Office



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Contracting Division General Office

"DAILY DRILL REPORT" Minneapolis, Minnesota 55414 Contract: Budge U.G. Date: 11 8 1985 Drill 344 Location: Jerome, Ariz. Foreman's Signature: Jade R 7tha **Total Casing Footage Summary Bit Size** Angle Drilling in Hole Reaming Shift Hole No. **Material Drilled** Drilled or Core Re-& Type From From To Reamed covered Size Footage LORS 284 300 Day A Aft B Nite C **Hourly Distribution** Day Nite Aft. **Supplies Consumed** Core Drilling **Product** Aft. Nite Handling Rod (change bit) Size Name **Number of Units** Description Portland Overburden - rock bit Lumnite Collaring Hole - Dia. bit Calseal Rotary Drilling 50# Mud Handling Rod (bit) 100# Mud Rock Bit - Overburden Other (Describe) Reaming (to Casing - Placing - Pulling Delays - Client Acct. Cementing - Handling Rods **OTHER** loads - Prep Hole & Grout Water hauling miles - Setting Core boxes: N @ size/__ - Drilling Length of waterline: Moving - Hole to Hole Lost tools: Description Rigging Up - Rigging Down Mix Mud Condition Hole, Lost Circulation Lost bits: Size _____ Serial no. ____ Surveying, Inclination Test Depth: _____ ft. Hole # ____ Mobilization/Demobilization Casing lost or left in hole: Size _____ ft. ____ Other (Explain) Hole # for Client Longco Hole # Bit changes: Serial # (Include first bit **Total Hours** in hole) Driller's Initials DRILLERS TRUCK DRIVERS HELPERS Hrs. Shift A B C Remarks:

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

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Contracting Division
General Office

General Office linneapolis. Minnesota 55414

Shift Hole No. S Material Drilled & Type		gardaned may	a line the area	10	Footage S	Summary		Fe	et	Tota	l Casing
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Contracting Division General Office

Minneapolis, Minnesota 55414

Locatio	n: Bud	me	. Ar	12 - F	мойтн oreman's Sign	DAY ature:	ock B	16 ayo	TYPE	DR	ILL NO.	TR	UCK NO.
	Pill Proper	-	ro Cores gr	Allered A or a second	Bit Size	0	Footage S	Summary		Fe	et		l Casing
Shift	Hole No.	Angle		rial Drilled	& Type	From	illing To	From	ming To	Drilled or Reamed		Size	Hole Footage
Day A	1104-3 -	11°	Cher	7	NA	250	269	O TURK	TO SEE WE	19	18		
Aft B	polgosoa	liftij e	or gradler	ist spacen	iir iqaaxa yih	tas yailla	tel magan	msulse an	ist he ever	R COMPLETE	SG YHA	000 016 18 016	
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	L Hourly Distrik	ution	DI OLUMBIA	Day	Aft.	Nite		The British	Suppl	ies Consum	ed		
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	dling Rod (cha	nge bi	it)	1			Description	n S	ize olad	Name	one INC	ımber o	f Units
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	ng Hole - Dia.	bit					Lumnite			1917	er rielt co	0 00	
	Drilling	alla qu	Lylmouh			too to our	Calseal Mud	50#	<u>u</u>	120 1305	ur un ses	10 0	
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Rock	Bit - Overbu	rden					Other (De		en reban	hamelako b	ne demone	1 50	
Reami		ucii)	Resident Control	RECEIPED IN		Othor (Bo	3011207			aA national		
	- Placing	1000	anouse.	JEWALION TO	0.00 (0) (0.00)	NO SERVICE	S 900 S 864 AND	nabar dau	ee in equ	31051 210000		ranger la	
	- Pulling					THE PERSON					O CHECKERS		
Delays	- Client Acct.	into.	HIN DOG	क्षेत्र विद्या ज्ञात	TE SULLISME	DD9_5 IL G	Min. Hels III	DE DE BUN	spect trade	BONE REPORT	Chan-Stat	17 .0	
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Cemen	ting - Handlin									OTHER	nen familie		
	- Prep Ho	le & G	irout	FOREST MARS	10 ST 18 ST ST ST	range your	Water hau	ling	m m	les e/ NQ	load		
	- Setting - Drilling	281101	QUE OI DE	fluental serv	Missip Rill G	51 ES SEL .5	Length of			e/ /V O	no.		
Movino	- Hole to Hol	ρ.					Lost tools:		Bearing the second section in		15 (2) 2002	14.5	
	Up - Rigging		y telaz bi	motive pa	nd a) holita is nostriano	odelno (s.)	COST TOOLS	su getass	or attem	tale: Time	gainolta gaistion	1. Con	
Condit	ion Hole, Los	Circu	lation	and Joulann	Notife shrift in	re de ard No	Lost bits:	Size	Se	rial no.	and Legal year	le Sun	
	ing, Inclinatio	_		and the second	the back of	10.000.000.000				ole #			
BANKS MANAGEMENT	zation/Demob	ilizati	on	pione diliv	author to 1/2	C uperos	Casing los	or left in	hole: Size	er <u>e unibisot</u>	ft.	tell /	
Other	(Explain)							ient		#	Layode	44	
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							Bit change (Include	es: N	A L	Serial # 13910	Depth /		
			SUMITA SI	医 毒素			first bit	(Je Ale He			21		
		Total	Hours	8	上包分别是出名	s leigh ord	in hole)	N	Q L9	10644	269		
	A 2 Dril	ler's l	nitials	2RH	Y CROSE	RYJAT	ARCCURA	OT CH	000		10 M33		
Shift			LERS		Hrs.	HEL	PERS		Hrs.	TRU	CK DRIVE	RS	Hrs
CONTRACTOR OF THE PARTY.			945/	iP		R.M	1115	SATES	8,	201			
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В								lating.					
B C		THE RESERVE	The second second										
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General Office

General Office Inneapolis, Minnesota 55414

Shift	Blat akura	9			Bit Size		Footage S				et		Casing
	Hole No.	Angle	Mater	rial Drilled	& Type	From	Illing To	From	ming To	Drilled or Reamed	Core Re-	Size	Hole Footage
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Aft B	ghdmada	one a	sor prillbru	ed arrede ore	is quaxically	Pap gerikiri	10 (d. 18) A	ng nga sa	Li lin vion	H LING: P	O TRAI	105 116 116	
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	Hourly Distril	oution		Day	Aft.	Nite			Suppl	ies Consume	ed		
Core D		bor as	la emit o	6	physic bra	artz mazoida	etc. Line	'If or Bits		Product	Day	Aft.	Nite
	dling Rod (cha		it)	,			Descriptio Portland	n Si	ze	Name	Nu	mber of	Units
THE RESERVE AND ADDRESS.	rden - rock bi ng Hole - Dia.		Al Sandar	-	The Spanis	ando ariz	Lumnite	philippe of	a outpets)	They some	100 miles		
	Drilling	DIL					Calseal				A CONTRACTOR		
	dling Rod (bit)		41 - 10 - 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000000		Mud	50#	4				
							Mud	100#	+	camieleza b	15 75070000		
Roc	Bit - Overbu	rden			REVOKES!		Other (De	scribe)	THE F) - r			
Reami)				drill 1	Mod 5	0" U	POXTRIL	4		
	- Placing		8 ATTAIN 112 mg					THE PERSON NAMED IN COLUMN				121 22	
	— Pulling	17/2007	Hard Store				riw removable	Maria Sunta	17 Specia	am. Iran	at sale	0.8 0	
Jelays	- Client Acct.	CONTROL OF	SHADORES	A HO SUM 25		18/1 MINU S	Appropries	AUDIN IN	ale DI VU	ACID STR STRAIL		1 100	
Cemen	ting - Handlin	a Rod	c			BYOM O	WORKET SERVE	ASSETTING TO SE	ELECT OF S	OTHER	illos ilhe	J. III	
Jennen.	- Prep Ho			mirerago to	r ar girt hot? c	ada ying	Water hau	ling	m		load	ds	
	- Setting	w teve	NO DET SILE	sary to shut	scon et telle	overes H.	Core boxe	s: N6	siz	iles ze/ 2	no.		
	- Drilling	0,85110	LUB MI BB	DESERVICES SERVI	Chambast of	stera likel inco		waterline:		and Buras a	III. 25 VIII. assat	- 10	
	- Hole to Ho						Lost tools:	Description	on		2000	100.00	
	Up - Rigging	Down	J KINIOS DE	mitofreq par	od a norder d	o della vi	sof elabioni.	nt pessil p	a bluent	April Later	STREET, STREET,	100 1	
Mix M	ion Hole, Los	+ Circu	ulation	1	(H0) H0 h03-40	NURSHIO 1	Secretary and second		1133338110	21537.1 77 FEB. 275			
	ing, Inclination		A STATE OF THE PARTY OF THE PAR	ns of accordant	IE (35 510) 5 210 9	0.05 96 109				erial no		3256	
	zation/Demob			a siba						ole # e			
	(Explain)			Edge de La						#		198	
		ak 317		eurica ne iti	Service Control	(forthers)				#		datt m	
							Bit change	s: Si	ze L	Serial #	Depth 6		
	AND SHEET					No. 1	(Include	No	y Ly	14406	976		
				0	BLOWERS NAME OF		first bit						
		Total	Hours	0	Second Cities	1989 P. F. F. V.	in hole)	1212	STATE OF STREET				
	Dri	ller's l	nitials	JR16	Y GROST	A Y JOT	ARUDDA	OT THE	195-140	V 237-14	103 10 3		
Shift		DRIL	LERS		Hrs.	HEL	PERS		Hrs.	TRU	CK DRIVE	RS	Hrs
Α	J.R.			PIRIS		R- Mi		PATEL	8	211			
В													
С				DESIGNATION OF THE PARTY OF THE									
Rema	rks:									7			
								10	and !	/-			
Various S								1	- colo	HISTORY.			
7457 m. C							F	1					Action in which the

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LONGYEAR COMPANY

Contracting Division
General Office

General Office //inneapolis. Minnesota 55414

100000	1 STORTING	1	a clustivit	thrien france		1	Special Control			DF DF	Luciel no	T 4.1	0 :
Ch:64	Hall North	Angle	illy sulf	ial Daillad	Bit Size	D.	Footage S		ming	Drilled or	Coro Bo		Casing Hole
Shift	Hole No.	An	iviater	ial Drilled	& Type	From	То	From	To	Reamed	Core Re-	Size	Footage
Day A	1104-3	-110	Ch	ext	NA	205	232		7743 XXI 84116	27	23		
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Nite C	offers and share the	er al	ngm ozia Pracit oni	Anned at the	es senit self o	anism lien	a pres ant	Tio pelica	the prison	Melenkos rio	of hele up	fuo 198	
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	dling Rod (cha urden - rock bi		t)	-			Description Portland	n Si	ize	Name	Nu	mber of	Units
	ng Hole - Dia.		ni hayini	en entrept	Strate Paper III (to to still	Lumnite	- Statest Terran	n process	Tom	er dint co		
	Drilling				human was	rate la mai	Calseal	kinon da ka		Astronomic Section	100		
Han	dling Rod (bit)			ninea a circula	a pi bangi	Mud	50 /	CONTRACTOR AND ADDRESS.	r se itolacco	os elemento	lad	
							Mud	100#	n asb <u>na</u>	bedisloxe b	as hamons		
	k Bit - Overbu	rden					Other (De	scribe)			of the state of		
Reami	- Placing	Tenago	окрівні	Tevreno Tr	BEER TO SEER	notes or	159W/AND BY	HEAT THEFT	W TUDGE	enti eleves	Si Fri Prin	100 40	
Cushing	- Pulling				nevert to za	craf aluator	-Jaoqee in	THE POLICE	5 110H 005	र में कारताच्या <u>गर्</u> डाच	na visisigi	1	
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	a significant	0.140	अहंग सामित्र	- NATIONAL RED	organista.	held law s	ON THEFT	an use in the	5/2 01 (4)	aur cas ano	the wise pair	10	
Cemen	ting - Handlin		Control of the last of the las			1222	I NUBELIUM		a area gra	OTHER			
	- Prep Ho	le & G	rout	Mark of votes	sound to the	atties ratio	Water hau	ling	m	iles ce/ 3	load		
	- Setting - Drilling	J Zerre	que la ba	flue/100 and	1,699,189,0	STATE AND LE	Length of			re/	no.		
Movino	- Hole to Ho	le					Lost tools:					AUR I	
NAME OF TAXABLE PARTY.	g Up - Rigging	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	ylalos bi	mandrag pa	eatton is bu	la naviv y	eresta di rin	nisted in	d bleck	arta I relos	l eninoith	ueO de	
Mix M				ROSE SE	and the court	oli subsubsub	rol elserrai	is of gallo	metti, no	elon Junte su	i gammag	\$ 10	325
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Ainneapolis, Minnesota 55414

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Contracting Division General Office

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LONGYEAR COMPANY Contracting Division General Office



Contrac	Bud	90	11	6.			nnesota 554		· Seli:	0817			L KEPORT		
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Contracting Division
General Office

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"DAILY DRILL REPORT"

Minneapolis, Minnesota 55414 Contract: Budge U.G. Date: 10 34 1985 Drill 34 Phis Location: Jerome, Ariz, Foreman's Signature: Jack **Total Casing Footage Summary** Angle **Bit Size** Drilling in Hole Reaming Shift Hole No. **Material Drilled** Drilled or Core Re-& Type From From To To Reamed | covered | Size Footage BO Day A Aft Nite C **Hourly Distribution** Nite Day Aft. **Supplies Consumed** Core Drilling Product Day Aft. Nite Handling Rod (change bit) **Number of Units** Description Size Name Overburden - rock bit Portland Collaring Hole - Dia. bit Lumnite Calseal Rotary Drilling 50# Mud Handling Rod (bit) 100# Mud Rock Bit - Overburden Other (Describe) 59AL Rock delloiL Reaming (Casing - Placing - Pulling Delays - Client Acct. OTHER Cementing - Handling Rods Water hauling miles loads - Prep Hole & Grout Core boxes: 3 size/ BQ no. - Setting - Drilling Length of waterline: Moving - Hole to Hole Lost tools: Description Rigging Up - Rigging Down Mix Mud Condition Hole, Lost Circulation Lost bits: Size _____ Serial no. ___ Surveying, Inclination Test Depth: _____ ft. Hole # ____ Mobilization/Demobilization Casing lost or left in hole: Size _____ ft. ____ Other (Explain) for Client ____ Hole #_ Hole # Longco Bit changes: Serial # Size Depth (Include first bit in hole) **Total Hours** Driller's Initials DRILLERS HELPERS TRUCK DRIVERS Shift Hrs. Hrs. HAYS W.R. Mi115 A B C Remarks:

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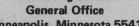
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Contracting Division General Office

Minneapolis, Minnesota 55414

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Contracting Division

General Office neapolis, Minnesota 55414

	on: Jero)			The day	10 900	1	ALC: NO	" /		A STATE OF THE	THE WAR	Total	Casina
Shift	Hole No.	Angle	Mate	rial Drilled	Bit Size & Type		Footage S		ming	Drilled or	Core Re-		Casing Hole
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	Hourly Distril	bution	1	Day	Aft.	Nite			Suppli	ies Consum	ed	2/10	
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	dling Rod (cha		oit)	49.2			Description Portland	n S	ize	Name	Nu	imber of	Units
	ng Hole - Dia.		ar tourier	et epoteat	SAL NOS AR	DO NOT THE OWNER.	Lumnite	- Bu-Hiran	a nemerica	TELEPE SEVERI	AND SERVICE	2 (C) h	
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Reamin	k Bit - Overbu	raen	1	Seattle Comment			Other (De	scribe)			-0	10-3	
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Contrac	ct: B	40	190	= 4	,6	Date:	10	19 1	nesota 554 985 Dril	34 pt	rifdh	ill/	104	/	
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	- Pulling						STATE OF	n su electron	1 June 10	TOTAL STREET	Haller Labe	EASTERN SUB	That the same of t		
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Minneapolis, Minnesota 55414

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Contracting Division

General Office

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Contracting Division

General Office

Contra	on: Jeta	90	4	3D	ate: 10	14 1	9 <u>85</u> Dri	34pt	Ed de	del)	704	/ TR	UCK NO.
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Contracting Division
General Office

General Office linneapolis, Minnesota 55414

Contrac	on: Jer	19	c 4	1.6. Da	ite: MONTH	12 1	nesota 552 985 Dri	1134 PM	bis dr	ill/	7 <i>04</i>	/ TB!	UCK NO.
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Contracting Division
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General Office

Ninneapolis, Minnesota 55414

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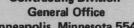
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- Setting					5, 8 (1-2), 71 %	COLUMN SE									
	- Drilling	-	G12 UP (59)	MURRIOR REI	Mark 1915 0	Brigg att a	Length of waterline:								
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	ing, Inclination			ENGLES OF THE	COURS STICE	MODE POLIS	Lost bits: Size Serial no Depth: ft. Hole #								
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Contracting Division

General Office

Contra	on: Jero	3	ge 1	1.G. D.	ate: 10	B DAY	9 <u>85</u> Dril	34 pt	bilds TYPE	ill/ 7	704 ILL NO.	/ TR	UCK NO.		
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Contracting Division General Office

Contra	ct: <u>B</u>	10	90	4.6. Da	MONTH preman's Sign	7	9 <u>85</u> Dri	3421	kida	Irill ?	704	/ TR	UCK NO.		
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Contracting Division General Office

"DAILY DRILL REPORT"

Minneapolis, Minnesota 55414 Contract: Budge U.G. Date: 10 5 1985 Drill 34 skildrill 704

Location: Jerome, Ariz Foreman's Signature: gack B 18 apply **Footage Summary** Feet **Total Casing** Angle **Bit Size** Drilling in Hole Reaming Drilled or Core Re-Shift Hole No. **Material Drilled** & Type From From To To Reamed covered Size Footage 723 Day A Aft Nite **Hourly Distribution** Day Aft. Nite **Supplies Consumed** Core Drilling Product Nite Aft. Day Handling Rod (change bit) **Number of Units** Description Size Name Portland Overburden - rock bit Collaring Hole - Dia. bit Lumnite Calseal Rotary Drilling Mud 50# Handling Rod (bit) Mud 100# Rock Bit - Overburden Other (Describe) Reaming (Casing - Placing - Pulling Delays - Client Acct. Cementing - Handling Rods OTHER Water hauling ____ miles ____ load no. loads - Prep Hole & Grout - Setting - Drilling Length of waterline: Moving - Hole to Hole Lost tools: Description __ Rigging Up - Rigging Down Mix Mud Condition Hole, Lost Circulation Lost bits: Size _____ Serial no. ____ Surveying, Inclination Test Depth: _____ ft. Hole # _____ Mobilization/Demobilization Casing lost or left in hole: Size _____ ft. ___ Other (Explain) for Client _____ Hole #____ Longco _____ Hole #____ Serial # Bit changes: Depth (Include first bit Total Hours in hole) Driller's Initials Shift DRILLERS HELPERS TRUCK DRIVERS Hrs. Hrs. A B C Remarks:

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LONGYEAR COMPANY

Contracting Division
General Office

General Office Minneapolis, Minnesota 55414

"DAILY DRILL REPORT"

Contract: Budge U. 6. Date: 10 4 1985 Drill 34 pkiddrill 704

Location: Jetome, Atiz. Foreman's Signature: Jack & Housely **Footage Summary** Feet **Total Casing** Angle **Bit Size** Drilling in Hole Drilled or Core Re-Reaming Shift Hole No. **Material Drilled** & Type From From To To Reamed covered Size Footage 04-2 NA 446 Day A Aft B Nite C **Hourly Distribution** Day Aft. Nite **Supplies Consumed** Core Drilling Product Aft. Nite Day Handling Rod (change bit) Description Size Name **Number of Units** Portland Overburden - rock bit Lumnite Collaring Hole - Dia. bit Calseal Rotary Drilling Mud 50# Handling Rod (bit) Mud 100# Rock Bit - Overburden Other (Describe) Reaming (Casing - Placing - Pulling Delays - Client Acct. Cementing - Handling Rods - Prep Hole & Grout Water hauling miles loads size/ N no. - Setting Core boxes: - Drilling Length of waterline: Moving - Hole to Hole Lost tools: Description _ Rigging Up - Rigging Down Mix Mud Condition Hole, Lost Circulation Lost bits: Size _____ Serial no. __ Surveying, Inclination Test Depth: _____ ft. Hole # ____ Mobilization/Demobilization Casing lost or left in hole: Size _____ ft. _ Other (Explain) for Client ____ Hole #_ Hole # Longco Serial # Bit changes: Size Depth (Include first bit **Total Hours** in hole) Driller's Initials DRILLERS HELPERS Hrs. TRUCK DRIVERS Hrs. Shift J.R. HAYS A B C Remarks:

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Contracting Division

General Office Minneapolis, Minnesota 55414

Contra	on: <u>Bue</u>	da	- 4.	G, D	ate:	HTMC	3 11 DAY	9 <u>85</u> Dril	34 pt	biddre TYPE	CP / DR	104 ILL NO.	TRI	UCK NO.
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General Office

General Office
Minneapolis, Minnesota 55414

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Contrac	ct: Bu	190	4.	6	Date:	ONTH	DAY 1	985 Dril	34/2	Cil de	eff j	ILL NO.	/ TR	UCK NO.
Locatio	on: Je	rom	e, A	riz F	oreman	's Sign	ature:	och K Ho	system					
	and and	HILL HOLD	distance i A	miliman area	100	Harry a	1	Footage S		e can de	A . C. L.	et	15.50	al Casing
Shift	Hole No	Angle	Mate	rial Drilled		t Size	Dr	rilling		aming	Drilled or			Hole
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Contrac	on: Jeroi	90	4.	6. Da			9 <u>85</u> Dril		i ddri	08 / 70 DR	ILL NO.	/ TR	UCK NO.
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No.		0			I Programme Assessment	Edining R	Footage S	Summary		Fe	et	Tota	l Casing
Shift	Hole No.	Angle	Mate	rial Drilled	Bit Size & Type	From	rilling To	Real From	ming To	Drilled or Reamed	Core Re-	Size	Hole Footage
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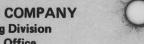
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	and unide	e	the rest	nia agus s	Bit Size	-	Footage S				et		I Casing
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Contracting Division General Office

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Contracting Division General Office

General Office
Minneapolis, Minnesota 55414

Contrac	# <u>B4</u>	do	gell.	6- Date	e: 9 MONTH	25 1 DAY	985 Dril	340k	Adrill	170 DR	HILL NO.	/ TR	UCK NO.
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	A SHIP ROLL	0			D: . 0:-		Footage S	ummary		Fe	et	Tota	l Casing
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	lling Rod (cha	ange l	bit)	P			Descriptio		ze oladal			mber o	
	rden - rock bi		ai bruku	cu apelicate so	or han or	art For exist	Portland	positive se	ningsin :	necis sons	ing Shap	d Can	
	ng Hole - Dia.	bit			A CONTRACTOR		Lumnite			.19(1)	on what he	n w	
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	- Hole to Ho	MATURE NA					Lost tools:	Description	on				
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	ion Hole, Los	t Circ	culation	an Intigral to	de airts in	vorts od 11s	Lost bits:	Size	Sei	rial no	ont paivs	fr. Sum	
	ing, Inclination			Complete Pour		and in a				le #			
MALE CONTRACTOR OF STREET	zation/Demob	oilizat	ion	number of the sec	inorrow.	torise Do	Casing lost	or left in	hole: Size	le ordbset	ft	111	No.
Other ((Explain)									#	.avodá	1911	
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Minneapolis, Minnesota 55414

Contrac	on: Jero	190	. 4.	5. Da	te: 4	24 1	985 Drill	34sk	Adre	01/7	04	/	ICK NO.
Locatio	on: Jero	MIE	.Ar	Fo Fo	reman's Sign	ature:	rek B	16ay	plip		ITEL NO.	****	- CK NO.
	- She hibikii	101	EXCEPTED.	HILLSON THESE	S. Indiana	0	Footage S	ummary		Fe	et	Total	Casing
Shift	Hole No.	Angle	Mate	rial Drilled	Bit Size & Type	Dr From	illing To		ming	Drilled or			Hole
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Nite C	gett frei e	社会	also ince	lilly tidl .gts	state kowie	rigorità di	(10) z001	raigger a	Things so not	is works to	ating from of hele of Change	BH LUO	
	Hourly Distril	bution		Day	Aft.	Nite			Suppli	ies Consumo	ed	2400-17	
Core D	The state of the s		for construct	8	Sebullari bil	de nuidine	amilC.ore	W 01 8" 1		Product	Day	Aft.	Nite
Hand	dling Rod (cha	ange b	it)				Descriptio	n Si	ze	Name		mber of	Units
	rden - rock bi		ni tustini	ci osstant A	iter hez go s	or in secial	Portland	profiles as	v nikipula.	inica aput	er de soni	2 4	
The second second	ng Hole - Dia.	bit					Lumnite			1001	ga mon the	110	
	Drilling	1					Calseal Mud	50#	1	Test + was it	15 15 min		
mand	dling Rod (bit	.)	Support Titl	A special to the	Circles Apply 64	Ver Processor	Mud	100#	COLUMN TO SERVICE STATE OF THE PARTY OF THE	t a haman	a diagain		
Rock	k Bit - Overbu	rden					Other (De:			STREET,			
Reamir	ng (to)				ALIANDO SEL	manata		MENT SAMPLE			
	- Placing	apapab	thinking.	Indignal d			Reserved Str	MORE LESSES		HIND STOYOU	21111	1197	
THE RESERVE TO SHARE THE PARTY NAMED IN	- Pulling					MAN WORLD	N STRUCK SAN		CHILD STATE		A SECTIONAL		
Delays	- Client Acct.	E GUIDA	AND BROKE	DIE 1970 SID	vener market	THE BYD HE	my stera te		gri Frisida	STREET SHARE	Teo roes prod		
Comon	ting - Handlin	a Pod					VALUE OF SIZE	to the state of th	idus yir a	OTHER	Table of the	J 154	
Cemen	- Prep Ho		Maria Carlo	104761800 7G		ather which	Water haul	ina	mi	les	load	le	
	- Setting	W. DWG	0.911.931	ISBN 10 SHOT	90,911 (1,1) (1	syawo Her	Core boxe	s: 3	siz	e/ NA	no.		
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	- Hole to Ho	STATE OF THE PERSON.					Lost tools:	Description	on				
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	ion Hole, Los	t Circu	ulation		Market And Town of the	and the next firm	L and blane	Cina	Co	ulal na	and confirme	112 8	
_	ing, Inclination									rial no ole #			
	zation/Demob			remarks we have a	with a very visible					9			
Other ((Explain)									#			
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		2 1					Bit change		ize S	Serial #	Depth		
							(Include	-Xie ei	t appropr	SIJ V			
		Total	Hours	G.			first bit in hole)	omulos no	DISTENDENCE	INTEGRICAL	in pater or		
			nitials	9R/6	Y OROSE	R YJJT	ARUDDA	OT CH	290 120	V BOTUL	100 W 23		
Shift			LERS	MILL I	Hrs.	HEI	PERS	27 1840 (20)	Hrs.	TRU	CK DRIVE	RS	Hrs.
A	J.R. F			P		2 - M		INTAS	8	I I I	CK DRIVE	no	1113.
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LONGYEAR COMPANY

Contracting Division
General Office

General Office

Contrac	n: Jerov	190	= 4	. 6. Da	ate: 9	A3 DAY	nnesota 554	34 pk	eldre TYPE	U / 7	a 4	TRU	JCK NO.
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Shift	Hole No.	Angle	Mate	rial Drilled	Bit Size & Type		rilling		ming	Drilled or	Core Re-	in	Hole
						From	То	From	То	Reamed	covered	Size	Footage
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Nite C	tpittisefs	10 PL	doni bels	The state of	e ador sous	Spriang:	id not ablat	pelicipat n	105018-90 560	me went so	Sold prints a sled to Shanand	isHa.	
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	dling Rod (ch	ange	bit)	7			Description	on Si	ize	Name		mber o	Units
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	ng Hole - Dia.	bit					Lumnite				ou triph ser	100	
	Drilling	-	d then	Mac Wison	10000	-	Calseal	50#		Joseph . mark	100 200 200	175 4	
Hand	dling Rod (bit	t)	beingen ti	Carolida.co	SPANA SUNTA	in a book	Mud Mud	100#	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN	it in Soldani	en dissorte	100	
Rock	k Bit - Overbu	ırden					Other (De		en rebrow	09(65,16)(6)	OF BEATEROSES	303	
Reamin		racii)		SALES SALES		Other (D	SCHOOL			SA BOUNES		
	- Placing	CESTOC	in timesolari	TOURIEND II.	8918-01-1101	no sellan	198WILLI D	HVOCE DOZ	W. TA DESCRIPTION	MENT STREET	STATE STREET	- FEI - P	
	- Pulling				700711 10						THE RESERVE		
Delays	- Client Acct.	uracs	HOW DON	THE SHOP BUT	pe St-Tubus	jupe ant o	rivy plans to	iw do sup	Bri quede	BITTLE STRANC	中国		
A TOTAL OF	Blon ent-	10 111	o soe gora	STEPERS SOL	r ant narry	TIBIZ TUV	anin arwon	Burgaria al-	No. of the	ERI SOL MED	THE PERCHASIN		
Cemen	ting - Handlir									OTHER			
	- Prep Ho	ole &	Grout	THE PARTY OF THE	Soon at this	revisori	Water had	iling	m	iles	load no.		
	- Setting - Drilling	0.5303	GUO2 21 58	1855 CO3-3187	Mary O Table Co.	67U8 9IZ .D	Length of	waterline:	SIA	ze/ jv c	no.		
Movino	- Hole to Ho	_					THE RESIDENCE OF THE PARTY OF T	: Descripti	Company of the last of the las		1100	DIN .	
	Up - Rigging	NAME OF TAXABLE PARTY.	vn Vialoz d	moticu en	sd a nelitari neithmen	go nšalvi v Mrougna	rgotso ende	ni hetali t	nsdege	amil (a)or elos lino es	Lampo libr	10.3-1	
Condit	ion Hole, Los	st Circ	culation	neril alumani	ISTANTO IN	words and We	Lost bits:	Size	Se	erial no	onf ,enivev	h. 801	
	ing, Inclination			north many						ole #			
	zation/Demol	biliza	tion	omes this	author tolds	of marga				e			
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Contracting Division
General Office

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LONGYEAR COMPANY

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General Office

Contra	ct: Bu	dg	e 4	1.6. D	ate: Mont	H DAY	1985 Dri	34 ph	TYPE pleh	ill/	704 RILL NO.	/ TR	UCK NO.
Locatio	on: <u>~~ 1 0</u>	1110	-)***		oreman s 5	ignature:	MARK IS	1 87000	7				
	Sid Sillar	0	F 655 516	HUUDEN EITES	The state of	-	Footage	Summary		F	eet	Tota	al Casing
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	rden - rock b		R' heolal	ni manaponi	Bina hoz u	and the next	Portland	n de la lace	o and order	Total Seat	AK (2 - 60)	0 D B	
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	Drilling						Calseal	rlisent solle		alasti a a al	Dri	1	
Hand	dling Rod (bi	t)		3 walsto c	A SOLVE	or a hear	Mud	50#	CHARLES IN CO.		S. Marian		
	D:: 0 1						Mud	100#	se rab <u>ini</u>	beinglosph	is isnous	s ledu s	
Reamin	k Bit - Overbu	COLUMN TWO IS NOT	1	AND RESERVED			Other (D	escribe)			dh airtar		
	- Placing	(JANSA)	0 6(5)9 x0	Ja Galonu 71	GR16 OF 82	10 32/95	199Wast2 g	AND THE FOUR	W sange	STREET, STREET	Teleficial spenis	4 191 8	
	- Pulling						Total Control	O CHEST AND A			The Riversion		
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	ion Hole, Los	st Circ	ulation	1	Santo Airest	post at the	Lost bits	Sizo	S	erial no.	Period manyan	1912 N	
	ing, Inclination									ole #			
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Other	(Explain)									#			
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Locatio		1 4		6. Da	oreman's Sign	lature.		Summary	7	1000000	eet	15.97	Casing
Shift	Hole No.	Angle	Mate	rial Drilled	Bit Size & Type	From	rilling	-	ming To	Drilled or	Core Re-	in	Hole
Day	1104-2	+15	Sof-	t Red	NA	108	165	From	10	Feamed 57	covered 57	Size	Footage
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Aft B	n gromask	pyra a	of profes	ned thous ore	it wisslas vill	Afos prilli	H Midneson	illantus on	CONTRACTOR		AU YHAI	976 JU	
Nite C	Qm 1861	art ela	itam oele	Mitor eight con	S BORE INDE	BETWIND I	to Februar	pointdist A	grejog g	no complete	oon groot to stort to	TUO .	
	Hourly Distri	bution	Mediania.	Day	Aft.	Nite			Suppl	ies Consum	ed		
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Hand	dling Rod (ch	ange bi	it)				Description	on Si	ze	Name	No.	mber of	Units
	rden - rock b		ni basic	of spateof i	not line un	en des acie	Portland	x gordha <u>n a</u>	s naisele	torac and	W 48 300	act by	
	ng Hole - Dia	bit					Lumnite			383	ke idea sa	g bus se	
	Drilling						Calseal Mud	50/		Jack Sand	10 30	Contract of	
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Roc	k Bit - Overbu	ırden					Other (De	coriba)				I SIL	
Reami)				Village Sign	il greating b					
	- Placing	1510100110	OF STREET	BENTHE OF		ero zenom	19847 30 9	III WOMEN THE RE	4 11 4	ONLY KISKON	E SERVICE	D LYL JE	
	— Pulling					THE COURT	1705		A SEPTEMBER				
Delays	- Client Acct	1000	inw bits	BR (Inh) 600	SB or Shorth	orse a print	A CONTRACTOR OF THE PARTY OF TH	INCELL FINE			HIND BUIL	E CE CE	
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Movino	- Hole to Ho						A STREET OF STREET	Description	The second second second			10m2	
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Mix M					Contribution to	elmiluona	POL SHADING	To to bailed	malia to	stag kub ar	la gensilles (210	
	ion Hole, Los			ner about on l	La LasaT	forte est fla	Lost bits:	Size	Se	erial no	ant patre	N. Bun	
	ing, Inclination			godback .	De la Section de la constante		III TO THE REAL PROPERTY OF THE PERSON			ole #			
	zation/Demol (Explain)	oilizatio	on	emelt skier	permon sold e	d medica				e			
Other	(Explain)									#			
		ab or o	G. Roses	mples serie	वीतकारी जेतन	iii ni batsi	Bit chang		ze Hole	#	Donth	at at the second	
							(Include		nonno en	Serial #	Deptil		
				STATE OF			first bit				129	mO.	
		Total	Hours	8	TOBISH STUDI	Major Sto	in hole)	ninolog m	arytici (take	i y won an.	DO DORESTO		
	AMDr	iller's l	nitials	9R16	Y ORGO	R YJBI	NEGINERAL	OT UN	ana uc	W SELTIN	una ar in	Знт	
Shift			LERS		Hrs.		PERS		Hrs.	TRU	CK DRIVE	RS	Hrs
B	J.R	MA	121	114	0 W.	R. M	1113		3	41			
С						7							
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Tioma	A Common State					- of	/						

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Contracting Division General Office

Minneapolis, Minnesota 55414

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General Office

Minneapolis, Minnesota 55414

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Contracting Division General Office

"DAILY DRILL REPORT" Minneapolis, Minnesota 55414 Contract: Budge 4.6. Date: 9 16 1985 Drill 34 skillill 704

Location: Jerone Atiz Foreman's Signature: Jokk 16 payply **Footage Summary** Feet **Total Casing** Angle Bit Size Drilling in Hole Drilled or Core Re-Reaming Shift Material Drilled Hole No. & Type From To From To Reamed | covered Size Footage Na 567 Bottom Day A Aft Nite **Hourly Distribution** Day Aft. Nite **Supplies Consumed** Core Drilling Product Aft. Nite Day Handling Rod (change bit) Description Size Name **Number of Units** Portland Overburden - rock bit Collaring Hole - Dia. bit Lumnite Rotary Drilling Calseal 50# Mud Handling Rod (bit) Mud 100# Rock Bit - Overburden Other (Describe) Reaming (Casing - Placing - Pulling Delays - Client Acct. Cementing - Handling Rods OTHER Water hauling miles loads
Core boxes: size/ no. loads - Prep Hole & Grout - Setting - Drilling Length of waterline: Moving - Hole to Hole Lost tools: Description _ Rigging Up - Rigging Down Mix Mud Condition Hole, Lost Circulation Lost bits: Size _____ Serial no. ____ Surveying, Inclination Test Depth: _____ ft. Hole # ____ Mobilization/Demobilization Casing lost or left in hole: Size _____ ft. Other (Explain) for Client ____ Hole #__ Longco ____ Hole #__ Moverna H Rods to Longco SURFACE Serial # Bit changes: Depth (Include first bit Total Hours in hole) Driller's Initials DRILLERS Hrs. **HELPERS** TRUCK DRIVERS Hrs. Shift R. HAYSIIP A В C Remarks:

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

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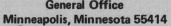
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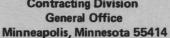
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- h. Rigging Up/Down: Time spent rigging up will start when the equipment is at the drill site and will continue until drilling operations are ready to start. Rigging down time will start when the rods and/or casing are out of the hole and will continue until the rig and equipment are ready to move.
- i. Mix Mud, etc.: Time should be shown against this item only when the rig is not operating. If the runner is drilling and the helper is mixing mud, no time should be shown. However, if it is necessary to shut the rig down while mud or additives are being prepared, then time should be listed. Be sure to list quantities consumed in supplies consumed section.
- j. Conditioning Hole: Time should be listed in this category when operation is being performed solely for the purpose of stabilizing the drill hole or attempting to eliminate lost circulation condition.
- k. Surveying, Inclination Test: Time spent surveying hole shall be shown. This shall include handling rods.
- 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.
- 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.

Contracting Division



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a. CORE DRILLING: Show all time actually spent in drilling activity except time spent handling rods and changing bit. Handling Rods: Show time spent in tripping rods for bit change, mislatch, stuck tube, etc. This will also include last trip out of hole upon completion.

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

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

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

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

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

- c. Reaming: Show size of hole such as "B to N", etc. Time shown should include actual reaming time plus rod handling time in and out of the hole before and after reaming.
- d. Casing: Show time spent placing or pulling casing. List size of casing and total footage involved in box located in upper right corner.
- e. Delays—Client Acct.: Delays incurred as result of suspension of activity caused directly or indirectly by client should be properly recorded in this category as well as fully explained in remarks section. Delays for Longyear Acct. should be reported and explained under remarks section.
- f. Cementing Activity: Time spent performing this activity should be properly listed in appropriate category.
- g. Moving: This covers time spent when moving between holes or area to area. If unusual, explain operation more completely under remarks section at bottom of report. Include length of move.
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Contracting Division General Office

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