Project - Hole	e:26-8a		Date: 8/17/83	
Location: <u>SW</u>	_of <u>NW</u> Sec	8 T 22N	R 40E Spud Date: com	re rig - 8/20/83
County, State:	Churchill, N	evada	Day #:	
Prog. Depth: _2	2500'	1,	Contractor: Longy	/ear
Geologist:	Huntsman		Rig.:	
Drilled 10	002 to	1002	Mud/Air/	
Footage Cut	0'		Temp: In	Out
Hole Size			Wt	
Dev. Survey	0		Vis	
Casing			Ph	-
Bits, stabs, e	tc. & ser. #	· · · · · · · · · · · · · · · · · · ·		
Lithology				
Additional Rep	ortFilled	water reservo	oir in Edward Ck. Valley	. Prepared
drill site wit	th backhoe.			
Well History			Evnon	1;tumos 920/+oday)
Interval	Hole Size	Casing		ditures 830(today)
0-406	10 1/4"	7"(0-400')	co date 830.00
406-1002	6 1/4"	4 1/2		ced
			Budgete	ed

Project - Hole	:26-8a		Date	:8/1	8/83
					re rig - 8/20/83
County, State:	Churchill, N	levada	Day #:		
Prog. Depth: 2	500'	1;	Contra	ctor: Long	year
Geologist:	Huntsman		Rig.	•	
Drilled 100	2to	1002	Mud/	Air/	
					Out
Hole Size					
Dev. Survey					
Casing					
Bits, stabs, et					
Lithology					
				ps Co. at 8	3 a.m. Longyear
					no timbers,
Well History					4507/4 4
Interval	Hole Size	Casing			ditures 4537(today)
					to date 5367.00
					ted
					t
				Budget	ed

Project - Ho	le:		Date:8/	19/83
Location: SW	of <u>NW</u> Sec	8 T 22N R	40E Spud Date: c	ore rig - 8/20/83
County, Stat	e: Churchill, N	evada	Day #:	
Prog. Depth:	2500'	1,	Contractor:_Lon	gyear
Geologist:	Huntsman		Rig.:	
Drilled	1002 to	1002	Mud/Air/	
Footage Cut_	0'		Temp: In	Out
Hole Size			Wt	
Dev. Survey_	0		Vis	
Casing			Ph	
Bits, stabs,	etc. & ser. #			
				oits. Cribbed
in cellar,	set up drill rig	, installed BOF	PE (total height 56")	. Attempted to
pressure up	BOPE but fluids	pumped into fo	ormation at base of c	casing. Visual
check shows	no leakage at su	ırface on arour	d wellhead. No nigh	it shift.
				_
Well History			_	
Interval	Hole Size	Casing		enditures 5148.(today)
				to date 10,515.00
				cted
				Ft
			Budge	ted

Project - Hole:	26-8a	Date: 8/20/83	
		Spud Date: core rig - 8/20/83	_
County, State:_	Churchill, Nevada	Day #: One	_
Prog. Depth: 25	001 1:	Contractor: Longyear	
Geologist: H	untsman	Rig.:	
Drilled 1002	to1080	Mud/Air/mud	_
Footage Cut	78'	Temp: In 17°C Out 20°C	_
Hole Size 3 3/4	1"	Wt_ 8.8	
	0		
Casing		Ph	
Bits, stabs, etc	c. & ser. #		_
Lithology Soft,	black shales, moderate amount p	yrite.	
Additional Repor	-t Finish setting up, RIH 9 a.m	., mix mud, circulate, begin	_
drilling at 1:1	5 p.m. Drill 1002-1008 with no	returns, unable to pull core	_
barrel and mud	pump pressuring to 700 psi. PO	H, core barrel jammed with fine	_
silt. RIH, dri	11 1008-1014 stick core barrel	briefly, then drilling ahead with no)
problems and mi	nor returns.		_
			_
			_
			_
Well History		Expenditures \$3343(today	·)
Interval	Hole Size Casing	Total to date 13,858.00	
0-4 06 4 06-1002	10 1/4" 7"(0-400') 6 1/4" 4 1/2"	Projected	
1002-1080	3 3/4"	Cost/Ft	
		Budgeted	
		<u> </u>	

Project - Hole: 20-8d	Date:8/21/83	
Location: <u>SW</u> of <u>NW</u> Sec. <u>8</u> T 22N R 40E	Spud Date: <u>core_r</u>	ig - 8/20/83
County, State: Churchill, Nevada	_Day #:	<u> </u>
Prog. Depth: 2500'	Contractor: Longyear	
Geologist: Huntsman	Rig.:	
Drilled 1080' to 1174'	Mud/Air/	
Footage Cut 96'	Temp: In	Out
Hole Size3 3/4"	Wt	- Carlon Control Contr
Dev. Survey @	Vis	_
Casing	Ph	
Lost circulation comp to 1174' with penetration 12-14'/hr. POH to	letely at 1160'; conti	
Well History Interval Hole Size Casing 0-406 10 1/4" 7"(0-400') 406-1002 6 1/4" 4 1/2" 1002-1174' 3 3/4"		res ate <u>not reporte</u> d

Project - Hole	e:26-8a		Date:8/22,	/83
Location: SW	of NW Sec.	8 T 22N R	40ESpud Date:	core rig - 8/20/83
County, State:	Churchill, N	levada	Day #:	
Prog. Depth:	2500'	1,	Contractor:_Lo	ngyear
Geologist:	Huntsman		Rig.:	
Drilled <u>ll</u>	74' to	1206'	Mud/Air/r	no returns
Footage Cut	32'		Temp: In	Out
Hole Size	3 3/4"		Wt	-
Casing				
vith no return	Change bit,	grease rods, R broke at 3:30p		
on parts.				
Well History			Evn	anditunas
Interval	Hole Size	Casing		enditures
0-406 406-1002	10 1/4"	7"(0-400')		1 to datenot reported
1002-1206	3 3/4"	7 1/2		ected
			Cost	
			ьиад	eted_\$62,000

	a	vate:	8/23/83	
Location: <u>SW</u> of <u>NW</u> So	ec. <u>8 T22N R 40E</u>	Spud Date:	core_rig	- 8/20/83
County, State: Churchil	l, Nevada	Day #:	•	
Prog. Depth: 2500'	1,	_Contractor:_	Longyear	
Geologist: Huntsman		Rig.:		
Drilled 1206'	to <u>1271'</u>	Mud/Air/	no returns	5
Footage Cut_ 65'		Temp: In	18 ⁰ C	Out
Hole Size 3 3/4"		Wt	9.3	
Dev. Survey @		Vis	42	
Casing		Ph		
fternoon. Drilling ahead	with no returns			
fternoon. Drilling ahead	with no returns			
fternoon. Drilling ahead	with no returns			
Well History Interval Hole Siz 0-406 10 1/4" 406-1002 6 1/4"		To	Expenditures otal to date	_
Well History Interval Hole Siz 0-406 10 1/4"	e Casing	To Pr	otal to date	_

Dear

Project - Hole: 26-8a	Date: 8/24/83
Location: SW of NW Sec. 8 T22N R 40E	Spud Date: core rig - 8/20/83
County, State: Churchill, Nevada [Day #:
Prog. Depth: 2500' '; C	Contractor: Longyear
Geologist: Huntsman	Rig.:
Drilled 1271' to 1379'	Mud/Air/no returns
Footage Cut108'	Temp: In 18°C Out
Hole Size 3 3/4"	Wt9.2
Dev. Survey@	Vis41
Casing	Ph
Lithology Hard black shales, qtz & calcite volume Additional Report Drilling ahead with no return fluids lost near bottom of hole. Penetration	rns. Very low pump pressure indicates
Well History Interval Hole Size Casing 0-406 10 1/4" 7"(0-400') 406-1002 6 1/4" 4 1/2" 1002-1379 3 3/4"	Expenditures today 3183. Total to date 23,995. Projected Cost/Ft Budgeted

Alean

Project - Hole: 26-8a	Date: 8/25/83
Location: SW of NW Sec. 8 T22N R	40E Spud Date: core rig - 8/20/83
County, State: Churchill, Nevada	Day #:6
Prog. Depth: 2500'	Contractor: Longyear
Geologist: Huntsman	Rig.:
Drilled 1379 to 1486 Footage Cut 107' Hole Size 3-3/4" Dev. Survey @ Casing Bits, stabs, etc. & ser. # Lithology Black shales, minor breccia & c Additional Report Penetration approximate to change bits, lube rods. Water tr	Temp: In 18°C Out N/A Wt 8.8 Vis 40 Ph lay zone at 1430' 1y 12'/hr POH once during day
has 1000 gal. tank. Truck with 2000	gal. tank being sent out
Well History Interval Hole Size Casing 0-406	Expenditures Today 4841 Total to date 28,836 Projected Cost/Ft Budgeted \$62,000

Project - Hole: 26-8a	Date: 8/26/83
Location: <u>SW</u> of <u>NW</u> Sec. <u>8</u>	T22N R 40E Spud Date: core rig - 8/20/83
County, State: Churchill, Nevad	daDay #:7
Prog. Depth: 2500'	Contractor: Longyear
Geologist: Huntsman	Rig.:
Drilled 1486 to 1599	Mud/Air/ Mud - No returns
Footage Cut 106'	Temp: In 17°C Out N/A
Hole Size 3-3/4"	Wt
Dev. Survey@	Vis 41
Casing	Ph
Bits, stabs, etc. & ser. #	
Lithology Shales with brecciate	ed shales and clay below 1580'
Additional Report Caving and/or	squeezing problems below 1580'. Hole apparently
in fault zone. Pipe	stuck briefly at 1580'. Core barrel sand line
broke, fished out and	cable repaired on day shift.
Well History	Expenditures Today 3301
	Total to date 32,137
406-1002 6 1/4" 4	7"(0-400') 4 1/2" Projected
1002-1592 3 3/4"	
	Budgeted \$62,000

Project - Hole: 26-8a	Date: 8/27/83
Location: SW of NW Sec. 8 T22N R 40E	Spud Date: core rig - 8/20/83
County, State: Churchill, Nevada	Day #: 8
Prog. Depth: 2500'	Contractor: Longyear
Geologist: Huntsman	Rig.:
Drilled 1592 to 1640'	Mud/Air/ Mud - No returns
Footage Cut 48'	Temp: In 18°C Out N/A
Hole Size 3-3/4"	Wt_8.8
Dev. Survey@	Vis
Casing	Ph
Bits, stabs, etc. & ser. #	
Lithology Brecciated shales in dark gray clay	matrix.
Additional Report 2 hours shut down for repair	s to drive head. POH for bit
change, condition hole for two hour	s. Core barrel sand line broke
again, fish out of pipe and reapir,	resume drilling. Hole apparently
being drilled in fault zone, caving a	and/or squeezing causing some
sticking. Soft material plugging co	re barrel forcing crew to pull
barrel every 2 - 6 feet. 170 ⁰ F temp	on MRT's at 1620'.
Well History	Expenditures To day 2840
Interval Hole Size Casing	Total to date 34,977
0-406 10 1/4" 7"(0-400') 406-1002 6 1/4" 4 1/2"	
1002-1640 3 3/4"	Projected
	Cost/Ft
	Budgeted_\$62,000

Project - Hole: 20-8a	Date: 8/28/83				
Location: SW of NW Sec. 8 T22N R 40E	Spud Date: core rig - 8/20/83				
County, State: Churchill, Nevada	Day #: 9				
Prog. Depth: 2500'	Contractor: Longyear				
Geologist: Huntsman	Rig.: Longyear 44				
Drilled 1640 to 1732	Mud/Air/ Mud - No returns				
Footage Cut 92'	Temp: In 17 ⁰ C Out N/A				
Hole Size3-3/4"	Wt8.4				
Dev. Survey@	Vis41				
Casing	Ph				
Bits, stabs, etc. & ser. # 1640-1660 Shale breccia in clay matrix Lithology 1660-1732 Competent shales, hard & silicic below 1720' Additional Report Nova mud engineer on site, recommends running polymer mud to minimize clay/water interaction. Clay matrix above 1660' still causing plugging problems in core barrel forcing crew to make 2 - 6 foot core runs. Competence of rock increasing below 1660, no problems with clay 1660-1732.					
Well History Interval Hole Size Casing 0-406 10 1/4" 7"(0-400') 406-1002 6 1/4" 4 1/2" 1002-1732 3 3/4"	Expenditures Today 2575 Total to date 37,552 Projected Coring Cost/Ft 51.44 Budgeted \$62,000				

Project - Hole: 26-8a	Date: 8/29/83
Location: SW of NW Sec. 8 T22N R 40E	Spud Date: <u>core rig - 8/20/83</u>
County, State: Churchill, Nevada	Day #:10
Prog. Depth: 2500'	Contractor: Longyear
Geologist: Huntsman	Rig.: Longyear 44
Drilled 1732 to 1813	Mud/Air/ Mud - No returns
Footage Cut81'	Temp: In 18 ^O C Out N/A
Hole Size3-3/4"	Wt_8.8
Dev. Survey@	Vis40
Casing	Ph
Bits, stabs, etc. & ser. #	
Lithology Medium to dark gray siltstones and i	nterbedded limestones.
Additional Report Core barrel stuck on morning	shift, broke sand line attempting
to retrieve. POH at 8AM cutting cab	le every 30 feet, core barrel
pulled free after pulling 1200' of p	ipe at 12:30PM. Pull remaining
pipe, check bit, core barrel stuck du	ue to overfilling by driller.
RIH, core 3 feet, shut down to change	e wireline cable, resume coring
at 5PM. Penetration about 10'/hr., o	drilling ahead with no problems.
Well History	Euponditunes T. L. 2014
Interval Hole Size Casing	Expenditures Today 3614
0-406 1003 7"(0-400')	Total to date 41,166
406-1002 6 1/4" 4 1/2" 1002-1813 3 3/4"	Projected
	Coring Cost/Ft_50.76
	Budgeted <u>\$62,000</u>

Project - Hole: 26-8a	Date: 8/30/83
Location: SW of NW Sec. 8 T22N R 40E	Spud Date: <u>core rig - 8/20/83</u>
County, State: Churchill, Nevada	Day #: 11
Prog. Depth: 2500'	Contractor: Longyear
Geologist: Huntsman	Rig.: Longyear 44
Drilled 1813 to 1882	Mud/Air/ Mud - No returns
Footage Cut 69'	Temp: In 18°C Out N/A
Hole Size 3-3/4"	Wt8.8
Dev. Survey@	Vis40
Casing	Ph
Bits, stabs, etc. & ser. #	
Lithology Medium to dark gray siltstones and in	nterbedded limestones.
Additional Report Two hours attempting to run	deviation survey, tool would not
work. Timer on deviation tools slips	and shouts while tool is being
lowered in hole. Three pen geolograp	oh installed on rig during day.
Drillers stuck core tube again and bro	oke wire line attempting to
retrieve, then made wet pull to recov	ver barrel. Penetration running
10 - 12 ft/hr and no hole problems no	ted while drilling.
Well History	
Interval Hole Size Casing	Expenditures 2176
0-406	Total to date Today 2176
406-1002 6 1/4" 4 1/2" 1002-1882 3 3/4"	Projected 43,342
	Coring Cost/Ft 49.25
	Budgeted \$62,000

Project - Hole:	26-8d		Date:_8	3-31-83	
		8 T 22N R 4			
County, State:_	Churchill, N	levada	Day #:]	2	
Prog. Depth: 25	500'	1	Contracto	r: Longyea	r
Geologist:	luntsman		Rig.:_ <u>L</u>	ongyear 44	
Drilled <u>1882</u>	to	1902	Mud/Air	/ <u>Mud - No</u>	returns
Footage Cut 20			Temp: I	n <u>18⁰ C</u>	Out
Hole Size 3 3/4	"		Wt_8.8		- Contraction
Dev. Survey	0		Vis <u>40</u>	***************************************	-
Casing			Ph		
Bits, stabs, et	c. & ser. #				
		quartzite congl			
		change, RIH, Co			
		rrel. Crew made			
Well History				Expendit	ures Today 1784
Interval	Hole Size	Casing			date 45,126
0-406 406-1002	10 1/4"	7"(0-400')			
1002-1902	3 3/4"	7 1/2	Canda	Projected_	
			Coring	Cost/Ft_5	•
				Budgeted <u>62</u>	1,000

Project - Hole	: 26-8a		Date:	9-1-83	
Location:	_ofSec	<u>TR</u>	Spud Dat	:e:	
County, State:			Day #:	13	
Prog. Depth:	· · · · · · · · · · · · · · · · · · ·		Contractor	•	
Geologist:			Rig.:L	ongyear 44	
Drilled	1902 to	1967	Mud/Air/	<u>Mud - No</u>	returns
Footage Cut	55'		_ Temp: Ir	18 ⁰ C	Out <u>N/C</u>
Hole Size3	3 3/4"		Wt <u>8.</u>	6	
Dev. Survey			Vis40		interna.
Casing			_ Ph		
Bits, stabs, et	cc. & ser. #				
Lithology Dark	to medium gray	quartzite conglo	merate		
		ripped pipe for			
		ir on 9-2. Exper			
1200' of HW cas	sing. Addition	al 1200' of HW ca	asing shippe	d to site f	rom AMAX'
Elko storage ya	ırd. Elko casi	ng is surplus fro	om Kerwin Wy	oming proje	ct
	•				
Well History					
Interval	Hole Size	Casing			res Today 6984.
0-406	10 1/4"	<u>7" (0-4</u> 00')		Total to d	
406-1002 1002-1967	6 3/4" 3 3/4"	4 1/2"		Projected 6	
			Coring		•
				Budgeted 67	,000

Project - note: 20-od	
Location: SW of NW Sec. 8 T 22N R 40E	Spud Date: core rig - 8/20/83
County, State: Churchill, Nevada	Day #:14
Prog. Depth: 2500'	Contractor: Longyear
Geologist: Huntsman	Rig.:
Drilled 1967 to 2024 Footage Cut 57' Hole Size HQ Dev. Survey @ Casing Bits, stabs, etc. & ser. #	Temp: In 18°C Out Wt 8.7 Vis 40 Ph
Additional Report Shut down at 9:00 a.m. to rep 10:00 a.m. Swing shift broke wire line cable, cable and tube. Morning tower sanded in tube, tripping out rods (both swing and night shifts	air chuck - then drilling ahead by pulled 200' of rods to retrieve broke wire line cable and started
Well History Interval Hole Size Casing	<pre>Expenditures Today 1960 Total to date 54,070 Projected Cost/Ft Budgeted</pre>

Project - Hole:	26-8a		Date: 9/3/83	
Location: SW	of <u>NW</u> Sec	8 T 22N R	40E Spud Date: core ri	g - 8/20/83
County, State:_	Churchill, Nev	/ada	Day #: <u>15</u>	
Prog. Depth: 2	500'		Contractor: Longyear	
Geologist: Hunt	sman		Rig.:	
Drilled 2024	to	2055	Mud/Air/_Mud	
Footage Cut 3	1'		Temp: In 180 _C	Out
Hole Size HQ			Wt_8.5	
Dev. Survey	0		Vis_39	
Casing			Ph	
Bits, stabs, et	c. & ser. #			
Lithology				
Additional Repor	rt Day shift f	inished rods i	n hole. Water in hole b	ouilding up
some drilling pr	ressure. Seems	to be between	300-400' of water in ho	le. Outside
gauge of impregr	nated bit mushr	oomed. Swings	shift tripped out of hol	e. Graveyard
shift tripped in	hole and dril	led 2'. 1200'	HW casing arrived at 4:	00 p.m.
Well History			F 484	
Interval	Hole Size	Casing		ures Today
0- 406	10 1/4"	7" (0-400')		date <u>56,183</u>
406-1002 1002-2055	<u>6 1/4"</u> <u>3 3/4"</u>	4 1/2"	-	
			Budgeted_	

Project - Hole:	26-8a		Date:9/4/83	3
Location: SW	of NW Sec.	8 T 22N R	40E Spud Date: core	e rig - 8/20/83
County, State:	Churchill, Ne	evada	Day #:16	
Prog. Depth:	2500'		Contractor: Longye	ear
Geologist: Hunt	sman		Rig.:	
Drilled 2053	to	2094	Mud/Air/ Mud	
Footage Cut 41			Temp: In 18 ⁰ C	Out
Hole Size HQ			Wt 8.7	Andrew Control of the
Dev. Survey	@		Vis 41	
Casing			Ph	
Bits, stabs, et	c. & ser. #			
Lithology				
Additional Repo	rt <u>Day shif</u>	t tripped out of	hole and then trippo	ed back in hole.
<u>Dirty sub tank</u>	caused gravel	to stick in tub	e. Also no core spr	ing in tube.
(Evidence of pr	oblems with n	ight shift.) Da	y shift cleaned sump	and adjusted tube
ETC. Swing shi	ft mixed new	mud and started	to core at 4:30 p.m.	
	· · · · · · · · · · · · · · · · · · ·			
Well History			Funce	diturna Taday 1620
Interval	Hole Size	Casing	-	ditures Today 1629
0- 406	10 1/4"	7" (0-400')		to date <u>57,758</u>
406-1002 1002-2094	6 1/4" 3 3/4"	4_1/2"	-	ted
			Cost/F1	
			Budgete	ed

Project - Hole:	26-8a		Date:	9/5/83	<u> </u>
Location: SW	of <u>NW</u> Sec	8 T 22N R 401	Spud Da	te: core rig	- 8/20/83
County, State:_	Churchill, Neva	ada	Day #:	17	
Prog. Depth: 25	00'		Contractor	: Longyear	
Geologist: Hunts	man		Rig.:		
		094			
Footage Cut	0		Temp: Ir)	Out
Hole Size			Wt 8	.8	
Dev. Survey 1/2	hrs @ 2065		Vis4	5	
Casing 8.50 and	ile 65 ⁰ SE		Ph		
Bits, stabs, etc	. & ser. #				
Lithology					
Additional Repor	tStopped_ho	le at 2094'; rock	fractured	but consider	ably more
competant than p	previous 50'.	Bits being ruined	trying to	drill throug	jh cave:
getting to botto	om of hole. Da	y shift broke out	HW rods i	n 10 foots.	Swing and
night shifts wor	rked together s	etting NW casing.	Casing w	ent in easy.	NW cut off
on bottom (no ca	sing shoe).		*		
			· ·		
Well History				Expenditure	<u>s</u> Today 972'
Interval	Hole Size	Casing		Total to dat	
0- 406 406-1002	10 1/4" 6 1/4"	7" (0-400') 4 1/2"		Projected	
1002-2094	3 3/4" HQ	NW set to 2094'		Cost/Ft	
				· · · · · · · · · · · · · · · · · · ·	

Project - Hol	e:		Date:	7-6-83
Location: SW	of NW Sec.	8 T 22N R 4	OE Spud Date	:core rig - 8/20/83
County, State	: Churchill, Nev	vada	Day #:1	8
Prog. Depth:_	2500'		Contractor:	Longyear
Geologist:	Huntsman		Rig.:	
Drilled	to		Mud/Air/_	
Footage Cut			Temp: In_	Out
Hole Size			Wt	No. of the second secon
Dev. Survey_	@		Vis	i di 1844 y Marian mana mana mana ya manakili k
Casing			Ph	***
Bits, stabs,	etc. & ser. #			
Lithology				
Additional Rep	port <u>Rig releas</u>	ed. Handling of	BOP Geolograp	h Reno by Longyear
Hauling left-	over NW casing	to Dullagus barn	. 4 hours paid	d to Longyear.
Well History				
Interval	Hole Size	Casing		Expenditures Today 272
0- 406	10 1/4"	7" (0-400')		otal to date 59,002
406-1002 1002-	6 1/4"	4 1/2		rojected
				ost/Ft
			R	udgeted