

Colorado  
Chattee

MT Princeton #640 Drilling  
Reports-Daily Shift Reports



G L 0 5 6 0 9

FILE\_CAB\_DRAWER\_

# SUMMARY OF DAILY ACTIVITIES

(FROM DRILL SHIFT REPORTS)

PROJECT Mt Princeton No. 640  
 COUNTY Chaffee  
 STATE Colo

HOLE No. \_\_\_\_\_ COLLAR ALT. \_\_\_\_\_  
 BEARING: at start \_\_\_\_\_ at \_\_\_\_\_  
 INCLINATION at start \_\_\_\_\_ at \_\_\_\_\_  
 COORD'S \_\_\_\_\_

*includes thawout,  
 drain up, run pipe time*

Date	Shift	Advance (ft)		HOURS SPENT																	REMARKS	ADDITIVES USED									
		From	to	Footage drilled	Bit size	Bit number	When changed	Drilling	Reaming	Set casing	Pull casing	Cementing	Drilling cement	Washing	Mix mud	Water line	Water haul	Water delay	Repairs	Standby for survey		Standby (other)	Rig up or down	Mobilization, de-	Other	Total shift hours	Driller (initials)	Mud	Cement	Other	
12-1		0	200	200	hammer	7																				4		640-13			
12-2				0																						4		Setup on 640-12. Took air compressor back to Denver.			
12-3		0	200	200		9 1/2																				1		640-12, move to 640-2	3		3lbs celex
12-4		0	200	200	44347	8 1/2																				2		640-2 Move to 640-4	4		4lbs celex
12-5		0	200	200																								640-4			
		0	200	200																								640-6			
		0	200	200	2 sets blades	8 1/2																				3		640-19			
12-6		0	200	200																								640-18			
		0	80	80		8																				2 1/2		640-15 started	1		
12-7		80	200	120	1 set blades	7																				3 1/2		640-15			
		0	200	200																								640-3			
12-8		0	200	200																								<del>640-3</del>	1		
		0	200	200	2 sets blades																							640-5			
		0	200	200		8 1/2																				1 1/2		640-7			
		0	200	200																								640-8	1		
12-9		0	200	200	1 set blades	7 1/2																				2 1/2		640-1	4		4lbs celex
		0	40	40																								640-20 started			
12-10		40	60	20	1 set blades																										
		0	200	200		7																				4		640-20 lost circ. gave up	6		8lbs celex
																												640-26			

HUGH M. HARRIS DRILL CO.

Date 12-4-76

COMPANY NAME ARMEX

2 hrs move, set up, M.H. Pipe

Hours	Price Per Hr	Amount
<u>32</u> Drill Hours	@	
<u>1/2</u> Hrs extra	@	
Chemicals	@	
<u>4</u> quick well	@	
Drilling Mud No.	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
<u>1</u>	<u>49347</u>	New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<u>        </u> Total

HOLE NO. 640-2

Feet Drilled 200

REMARKS: SET UP ON hole 640-2  
DRILL TO T.D. 200 FT. RUN PIPE  
TEAR DOWN MOVE TO hole 640-4

Employee Time Jim Tolson 10 1/2 Hours

Charles Kelly 10 1/2 Hours

Wm. Cooney 10 1/2 Hours

HUGH M. HARRIS DRILL CO.

Date 12-3-76

COMPANY NAME ARMEX

1 hr move set up

Hours	Price Per Hr	Amount
<u>7 1/2</u> Drill Hours	@	
<u>3 1/2</u> Hrs extra	@	
Chemicals	@	
<u>3</u> quick well	@	
Drilling Mud No.	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
		New Rock Bits
<u>1</u>		Retipped Rock Bits
		New Finger Bits
		<u>        </u> Total

HOLE NO. 640-12

Feet Drilled 100

REMARKS: DRILL TO T.D. 200 FT  
ON hole 640-12. MOVE RIG DOWN  
ATTN TO NEXT LOC.

Employee Time Jim Tolson 10 1/2 Hours

Charles Kelly 10 1/2 Hours

Wm. Cooney 10 1/2 Hours

HUGH M. HARRIS DRILL CO.

Date 12-2-76

COMPANY NAME ARMEX

1 hr move set up

Hours	Price Per Hr	Amount
<u>4</u> Drill Hours	@	
Chemicals	@	
Drilling Mud No.	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
		New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<u>        </u> Total

HOLE NO. 0

Feet Drilled 0

REMARKS: BRING EQUIP DOWN MOUNTAIN  
SET RIG UP ON hole 640-12  
TAKE AIR COMPRESSOR BACK TO  
DENVER.

Employee Time Jim Tolson 4 Hours

Charles Kelly 4 Hours

Wm. Cooney 4 Hours

HUGH M. HARRIS DRILL CO.

Date 12-1-76

COMPANY NAME ARMEX

4 hrs drive loc, set up, run pipe, tear down

Hours	Price Per Hr	Amount
<u>11</u> Drill Hours	@	
Chemicals	@	
Drilling Mud No.	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
<u>1</u>	<u>hammer</u>	New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<u>        </u> Total

HOLE NO. 640-13

Feet Drilled 200

REMARKS: DRIVE TO LOC, SET UP, DRILL TO  
T.D. 200 FT WITH HAMMER, RUN  
PIPE, TEAR DOWN.

Employee Time Jim Tolson 11 Hours

Charles Kelly 11 Hours

Wm. Cooney 11 Hours

# HUGH M. HARRIS DRILL CO.

Date 12-2-76

COMPANY NAME AMAX

1/2 hrs. move, set up, run pipe.

Hours	Price Per Hr	Amount
Drill Hours	@	
Chemicals	@	
Drilling Mud No.	@	
Circulation Material No.	@	

**BITS:**

No.	Serial	Amount
		New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<b>Total</b>

HOLE NO. 640-5 640-7 640-8

Feet Drilled 600

REMARKS: Drilling to T.D. 200 FT on hole's 640-5, 7, 8, Run pipe on each move set up on each

Employee Time Jim Tiller 10 Hours

Charles only 10 Hours

Wm. Gordon 10 Hours

# HUGH M. HARRIS DRILL CO.

Date 12-2-76

COMPANY NAME AMAX

3/4 hrs. move, set up, run pipe, move, set up

Hours	Price Per Hr	Amount
Drill Hours	@	
Chemicals	@	
Drilling Mud No.	@	
Circulation Material No.	@	

**BITS:**

No.	Serial	Amount
		New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<b>Total</b>

HOLE NO. 640-12 640-3

Feet Drilled 720

REMARKS: Thru out, start drilling on hole 640-12 to T.D. 200 F Run pipe move, set up, on hole 640-3 drill to T.D. 200 FT, Run pipe.

Employee Time Jim Tiller 10 1/2 Hours

Charles only 10 1/2 Hours

Wm. Gordon 10 1/2 Hours

# HUGH M. HARRIS DRILL CO.

Date 12-6-76

COMPANY NAME AMAX

1/2 hrs. move, set up, run pipe.

Hours	Price Per Hr	Amount
Drill Hours	@	
Chemicals	@	
Drilling Mud No.	@	
Circulation Material No.	@	

**BITS:**

No.	Serial	Amount
		New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<b>Total</b>

HOLE NO. 640-19 640-20

Feet Drilled 780

REMARKS: Drilling to 300 FT on hole 640-19 Run pipe move set up on hole 640-20 drill to T.D.

Employee Time Jim Tiller 10 1/2 Hours

Charles only 10 1/2 Hours

Wm. Gordon 10 1/2 Hours

# HUGH M. HARRIS DRILL CO.

Date 12-6-76

COMPANY NAME AMAX

3 hrs. move, set up, run pipe.

Hours	Price Per Hr	Amount
Drill Hours	@	
Chemicals	@	
Drilling Mud No.	@	
Circulation Material No.	@	

**BITS:**

No.	Serial	Amount
		New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<b>Total</b>

HOLE NO. 640-4 640-6 640-17

Feet Drilled 600

REMARKS: Drilling on hole's 640-4, 6, 17 to T.D. 200 FT. Each.

Employee Time Jim Tiller 11 1/2 Hours

Charles only 11 1/2 Hours

Wm. Gordon 11 1/2 Hours



# SCOTTS ACE HOME CENTER

7345 HIGHWAY 50 SALIDA, COLORADO 81201  
PHONE: 539-2160

12-8 1976

Name Amox

Address \_\_\_\_\_

CASH  CHARGED REC. ON ACC.

QUAN.	DESCRIPTION	PRICE	AMOUNT
66	3/4 Coupling PVC	45	2970
1	Case PVC Blue		545
			3005
			300
			3677
			137
			3618

ALL CLAIMS AND RETURNED GOODS MUST BE ACCOMPANIED BY THIS BILL

N<sup>o</sup> 54095

Rec'd By \_\_\_\_\_

# HUGH M. HARRIS DRILL CO.

Date 12-10-76

COMPANY NAME Amox

4 hrs max mud, TEAR DOWN, MOVE, RUN PIPE

Hours TEAR DOWN Price Per Hr Amount

7 Drill Hours @ \_\_\_\_\_

8 lbs colox \_\_\_\_\_

Chemicals @ \_\_\_\_\_

6 quick 9011 \_\_\_\_\_

Drilling Mud No. @ \_\_\_\_\_

Circulation Material No. @ \_\_\_\_\_

### BITS:

No. Serial Amount

New Rock Bits \_\_\_\_\_

1 Retipped Rock Bits \_\_\_\_\_

1 set Bits New Finger Bits \_\_\_\_\_

Total

HOLE NO. 40-60=20 0-200=200 640-26

Feet Drilled 220 FT

REMARKS: Drilling on 640-20 to 60 FT  
LOST CIR, CIR OUT OF old hole's  
TEAR DOWN MOVE TO 640-26 DRILL TO  
T.D. 200 FT RUN PIPE TEAR DOWN.

Employee Time Jim Talar 11 Hours

Charles Colby 11 Hours

Wes Gordon 11 Hours

# HUGH M. HARRIS DRILL CO.

Date 12-7-76

COMPANY NAME Amox

2 1/2 hrs max, set up, RUN PIPE.

Hours 7 1/2 Drill Hours Price Per Hr Amount

9 lbs colox \_\_\_\_\_

Chemicals @ \_\_\_\_\_

4 quick 9011 \_\_\_\_\_

Drilling Mud No. @ \_\_\_\_\_

Circulation Material No. @ \_\_\_\_\_

### BITS:

No. Serial Amount

New Rock Bits \_\_\_\_\_

1 Retipped Rock Bits \_\_\_\_\_

1 set Bits New Finger Bits \_\_\_\_\_

Total

HOLE NO. 640-1 640-20

Feet Drilled 240

REMARKS: Drilling to T.D. 200 FT ON  
hole 640-1 RUN PIPE, MOVE, SET UP, MOVE  
Drilling on 640-20 to 40 FT.

Employee Time Jim Talar 10 Hours

Charles Colby 10 Hours

Wes Gordon 10 Hours



# HUGH M. HARRIS DRILL CO.

Date 11-29-76

COMPANY NAME AMAX  
*2 hrs more 2-3 up*

Hours	Price Per Hr	Amount
<u>6</u> Drill Hours	@ _____	_____
<u>1</u> Chemicals	@ _____	_____
<u>2</u> Drilling Mud No.	@ _____	_____
_____ Circulation Material No.	@ _____	_____

**BITS:**

No.	Serial	Amount
_____	_____	_____ New Rock Bits
<u>1</u>	_____	_____ Retipped Rock Bits
_____	_____	_____ New Finger Bits
		<u>        </u> Total

HOLE NO. 6-30-30  
140-20

Feet Drilled 30

REMARKS: *more time to hole 640-20  
RT UP FOR AIR DRILL TO 20 FT  
with gravel and boulders*

Employee Time Jim Tabor 10 Hours

Charles Coley 10 Hours

Wes Gordon 10 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-28-76

COMPANY NAME AMAX

Hours	Price Per Hr	Amount
_____ Drill Hours	@ _____	_____
_____ Chemicals	@ _____	_____
_____ Drilling Mud No.	@ _____	_____
_____ Circulation Material No.	@ _____	_____

**BITS:**

No.	Serial	Amount
_____	_____	_____ New Rock Bits
_____	_____	_____ Retipped Rock Bits
_____	_____	_____ New Finger Bits
		<u>        </u> Total

HOLE NO. \_\_\_\_\_

Feet Drilled \_\_\_\_\_

REMARKS: *Too cold nothing would  
START BATTERY in AIR CAMP  
NO JOBS.*

Employee Time Jim Tabor Hours

Charles Coley Hours

Wes Gordon Hours

# HUGH M. HARRIS DRILL CO.

Date 11-24-76

COMPANY NAME AMAX

Hours	Price Per Hr	Amount
_____ Drill Hours	@ _____	_____
_____ Chemicals	@ _____	_____
_____ Drilling Mud No.	@ _____	_____
_____ Circulation Material No.	@ _____	_____

**BITS:**

No.	Serial	Amount
_____	_____	_____ New Rock Bits
_____	_____	_____ Retipped Rock Bits
_____	_____	_____ New Finger Bits
		<u>        </u> Total

HOLE NO. \_\_\_\_\_

Feet Drilled \_\_\_\_\_

REMARKS: *go to Denver FOR  
AIR CAMP.*

Employee Time \_\_\_\_\_ Hours

\_\_\_\_\_ Hours

\_\_\_\_\_ Hours

# HUGH M. HARRIS DRILL CO.

Date 11-23-76

COMPANY NAME AMAX  
*1 hr hole pipe  
3 hrs for small rig and with TR.*

Hours	Price Per Hr	Amount
<u>6</u> Drill Hours	@ _____	_____
<u>3</u> Chemicals	@ _____	_____
<u>4</u> Drilling Mud No.	@ _____	_____
_____ Circulation Material No.	@ _____	_____

**BITS:**

No.	Serial	Amount
_____	_____	_____ New Rock Bits
_____	_____	_____ Retipped Rock Bits
_____	_____	_____ New Finger Bits
		<u>        </u> Total

HOLE NO. 140-20-139  
140-14

Feet Drilled 135

REMARKS: *Drilling to T.D 295 FT  
on hole 640-14 come out with  
pipe. Push down pipe with TRAVIS  
to find what you want to go  
to Denver.*

Employee Time Jim Tabor 10 Hours

Charles Coley 10 Hours

Wes Gordon 10 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-30-76

COMPANY NAME ADAMS  
1 hr START UP TIME,

Hours	Price Per Hr	Amount
<u>8</u> Drill Hours	@ _____	_____
<u>1 gal FORM</u> Chemicals	@ _____	_____
<u>1 quick roll</u> Drilling Mud No.	@ _____	_____
_____ Circulation Material No.	@ _____	_____

### BITS:

No.	Serial	Amount
_____	_____	New Rock Bits _____
<u>same</u>	<u>1/2 gal</u>	Retipped Rock Bits _____
_____	_____	New Finger Bits _____
		Total _____

HOLE NO. 30-60-30  
640-30

Feet Drilled 30

REMARKS: 2000 ft hole, start up  
start drilling to 60 ft hit wire  
contact gravel, start 1st  
start drilling to 30 ft hit gravel  
boulders.

Employee Time Jim Tolson 9 Hours

Charles Kelly 9 Hours

Jim Tolson 9 Hours





# HUGH M. HARRIS DRILL CO.

Date 11-17-76

COMPANY NAME AMAX

3 1/2 hrs than out, still rig, DANIN UP

Hours	Price Per Hr	Amount
<u>12</u> Drill Hours	@	
<u>4 hrs lime</u>		
Chemicals	@	
<u>3</u> Drilling Mud No.	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
<u>1</u>	<u>47620</u>	New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		Total

HOLE NO. 0-220 = 220  
640-23

Feet Drilled 220

REMARKS: UNFREEZE RIG PRIME PUMP  
go in hole. lost 20 FT, get to bottom  
can't make conn. come out spill rig  
15 FT DRILL TO 220 FT ON hole 640-23  
DRAIN UP go home.

Employee Time Jim Tolca 11 Hours  
Charlie Coley 11 Hours  
Wes Gordon 11 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-16-76

COMPANY NAME AMAX

2 hrs move, set up, mix mud, DANIN UP,

Hours	Price Per Hr	Amount
<u>6</u> Drill Hours	@	
<u>6 hrs lime</u>		
Chemicals	@	
<u>5</u> Drilling Mud No.	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
<u>1</u>	<u>46524</u>	New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		Total

HOLE NO. 0-40 = 40  
640-23

Feet Drilled 40

REMARKS: MOVE FROM BUENA VISTA TO  
LOC. SET UP MIX MUD START DRILLING  
LOTS OF BOUNK'S AND GRIND. DRILL  
40 FT ON hole

Employee Time Jim Tolca 8 Hours  
Charlie Coley 8 Hours  
Wes Gordon 8 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-17-76

COMPANY NAME AMAX

Hours	Price Per Hr	Amount
<u>10</u> Mobilization Drill Hours	@	
Chemicals	@	
Drilling Mud No.	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
		New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		Total

HOLE NO. \_\_\_\_\_

Feet Drilled \_\_\_\_\_

REMARKS: MOBILIZATION LODSBOURG  
N.M. TO BUENA VISTA COLO

Employee Time Jim Tolca 10 Hours  
Charlie Coley 10 Hours  
Wes Gordon 10 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-11-76

COMPANY NAME AMAX

Hours	Price Per Hr	Amount
<u>7</u> Mobilization Drill Hours	@	
Chemicals	@	
Drilling Mud No.	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
		New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		Total

HOLE NO. \_\_\_\_\_

Feet Drilled \_\_\_\_\_

REMARKS: MOBILIZATION LODSBOURG  
N.M. TO BUENA VISTA COLO

Employee Time Jim Tolca 7 Hours  
Charlie Coley 7 Hours  
Wes Gordon 7 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-21-76

COMPANY NAME ADMAX

*2 1/2 hrs move to loc and set up  
1/2 hr DRAIN UP*

Hours	Price Per Hr	Amount
<u>7 1/2</u> Drill Hours	@	
<u>4 1/2</u> CMC	@	
<u>3</u> quick get	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
<u>1</u>	<u>49349</u>	New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<b>Total</b>

0-240-240  
640-24  
HOLE NO. \_\_\_\_\_

Feet Drilled 240

REMARKS: *move up mountain to loc, had  
WTR set up and drill to 240' on  
hole 640-24 DRAIN UP COME TO TOWN*

Employee Time Jim Tolson 10 1/2 Hours

Charlie Colby 10 1/2 Hours

Wes Gordon 10 1/2 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-20-76

COMPANY NAME ADMAX

*1 hr DRAIN UP and Thaw out in morning  
2 1/2 hr MOVE, RUN PIPE*

Hours	Price Per Hr	Amount
<u>7 1/2</u> Drill Hours	@	
<u>4</u> CMC	@	
<u>4</u> quick get	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
<u>1</u>	<u>49304</u>	New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<b>Total</b>

130-295 =  
640-22  
HOLE NO. \_\_\_\_\_

Feet Drilled 175

REMARKS: *Drilling on hole 640-22  
to T.D. 295 FT. Then down move  
toward next loc.*

Employee Time Jim Tolson 10 1/2 Hours

Charlie Colby 10 1/2 Hours

Wes Gordon 10 1/2 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-19-76

COMPANY NAME ADMAX

*1 hrs DRAIN UP, Thaw out*

Hours	Price Per Hr	Amount
<u>10</u> Drill Hours	@	
<u>12</u> CMC	@	
<u>6</u> quick get	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
<u>1</u>	<u>36461</u>	New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<b>Total</b>

40-120 = 80  
640-22  
HOLE NO. \_\_\_\_\_

Feet Drilled 80

REMARKS: *Drilling on hole 40-22 to Duff  
very heavy gravel and Boulder's  
trouble with connection's*

Employee Time Jim Tolson 11 Hours

Charlie Colby 11 Hours

Wes Gordon 11 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-18-76

COMPANY NAME ADMAX

*2 1/2 hrs move, setup, RUN PIPE*

Hours	Price Per Hr	Amount
<u>11 1/2</u> Drill Hours	@	
<u>2 1/2</u> CMC	@	
<u>11</u> quick get	@	
Circulation Material No.	@	

BITS:

No.	Serial	Amount
<u>1</u>	<u>49302</u>	New Rock Bits
		Retipped Rock Bits
		New Finger Bits
		<b>Total</b>

220-295 = 75     0-40 = 40  
640-23     640-22  
HOLE NO. \_\_\_\_\_

Feet Drilled 115

REMARKS: *Drilling to T.D. 295 FT on  
hole 640-23 RUN PIPE, move next loc  
set up drill to 40 FT hole 640-22*

Employee Time Jim Tolson 10 Hours

Charlie Colby 10 Hours

Wes Gordon 10 Hours

# HUGH M. HARRIS DRILL CO.

Date 11-27-76

COMPANY NAME ADUX

3 1/2 hrs move, set up

Hours	Price Per Hr	Amount
<u>7</u> Drill Hours	@ _____	_____
<u>4 1/2</u> CMC	@ _____	_____
_____ Chemicals	@ _____	_____
<u>3</u> Drilling Mud No.	@ _____	_____
_____ Circulation Material No.	@ _____	_____

### BITS:

No.	Serial	Amount
<u>1</u>	<u>31410</u>	New Rock Bits _____
_____	_____	Retipped Rock Bits _____
_____	_____	New Finger Bits _____
		Total _____

240-265-15 0-140-14  
640-24 640-14

HOLE NO. \_\_\_\_\_

Feet Drilled 175

REMARKS: Drilling on hole 640-24  
to 7.D. 255 FT RUN PIPE DOWN TO  
NEXT LOG. SET UP, DRILL TO 160 FT.  
ON hole 640-14 DRILL UP.

Employee Time Vin Tolson 10 1/2 Hours

Charles Coley 10 1/2 Hours

Wes Cardwell 10 1/2 Hours



D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole C40-28

Date: 10-4-77

Shift: Day X  
Swing \_\_\_\_\_  
Night \_\_\_\_\_

Location: C40-28

Angle: \_\_\_\_\_

Project: Mt Princeton

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ - Drilling: To: 0 Size \_\_\_\_\_  
From: \_\_\_\_\_ From: 0

Footage Reamed: \_\_\_\_\_ - Footage Drilled: 0

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_  
Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Portland Cement \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_ 1600 + 250  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_ 16700 Pounds 5-50 Pounds  
Chemical Additives \_\_\_\_\_ bags or gals.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hourly Distribution

Drilling Overburden \_\_\_\_\_  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and lowering rods \_\_\_\_\_  
Rig-up/Rig-down 2 hr  
Moving \_\_\_\_\_  
Mixing Mud 3 hr  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_  
\_\_\_\_\_  
Wedging Operations: Explain \_\_\_\_\_  
\_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_

Other Items

Water hauling: Miles 80 Hours 5 hr  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. \_\_\_\_\_ Size \_\_\_\_\_  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TOTAL HOURS 5 hr

Remarks \_\_\_\_\_

Foreman \_\_\_\_\_

Driller John Bortz

Helper Bill Lang

Truck Driver Randy Drey

HOLE

Water depth

188

Temp every 10' in & out

D022869

Noon to Midnight

AMAX EXPLORATION, INC.

Hole 1

Date: 10-4-77

DRILL SHIFT REPORT

Shift: Day \_\_\_\_\_  
Swing \_\_\_\_\_  
Night ✓

Location: Mt. Princeton

Angle: \_\_\_\_\_

Project: AMAX 640-28

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: 240 1/2 Size: 8 3/4  
From: \_\_\_\_\_ From: 0

Footage Reamed: \_\_\_\_\_ Footage Drilled: 240 1/2

Casing Placed in Hole: 241 1/2 Size: 6 3/8 Core Recovered: \_\_\_\_\_  
Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_  
Feet: \_\_\_\_\_

Supplies Used

Hourly Distribution

Portland \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives \_\_\_\_\_ bags or gals.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Drilling Overburden 2 1/2 h.  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing 3 1/2 h.  
Pulling and lowering rods \_\_\_\_\_  
Rig-up/Rig-down 1/2 h.  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Other Items

Water hauling: Miles 6 Hours 3/4 h.  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. 21 Size 8 3/4  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: 50 3/25

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TOTAL HOURS \_\_\_\_\_

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Foreman \_\_\_\_\_  
Driller Tony Rath  
Helper Calvin Cadle - Rod Henry  
Truck Driver \_\_\_\_\_

HOLE



D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole 640-28

Date: 10-5-77

Shift: Day \_\_\_\_\_  
Swing \_\_\_\_\_  
Night X

Location: 640-28

Angle: \_\_\_\_\_

Project: Mt Lonslow

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: 0 Size: \_\_\_\_\_  
From: \_\_\_\_\_ From: 0

Footage Reamed: \_\_\_\_\_ Footage Drilled: 0

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Portland <sup>bags</sup> 40 <sup>100/lb</sup>  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives bags or gals. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hourly Distribution

Drilling Overburden \_\_\_\_\_  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and \_\_\_\_\_  
lowering rods \_\_\_\_\_  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair \_\_\_\_\_  
Cementing <sup>mixing cement</sup> B. H. H.  
a) Washing hole \_\_\_\_\_  
b) Cementing X \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_  
\_\_\_\_\_  
Wedging Operations: \_\_\_\_\_  
Explain \_\_\_\_\_  
\_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Other Items

Water hauling: Miles 0 Hours 0  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. \_\_\_\_\_ Size \_\_\_\_\_  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TOTAL HOURS 4 1/2

Remarks Waiting up for Cementing Foreman \_\_\_\_\_  
Driller John Bortz  
Helper Bull Lang  
Truck Driver Randy Drey

HOLE

D022869

AMAX EXPLORATION, INC.

Hole 1

DRILL SHIFT REPORT

Date: 10-5-77

noon - Midnight

Shift: Day \_\_\_\_\_

Swing \_\_\_\_\_

Night \_\_\_\_\_

Location: ~~Blaine~~

Angle: \_\_\_\_\_

Project: AMAXS

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: \_\_\_\_\_ Size: \_\_\_\_\_  
From: \_\_\_\_\_ From: \_\_\_\_\_

Footage Reamed: \_\_\_\_\_ Footage Drilled: \_\_\_\_\_

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Portland 10016 4 bags 165.2  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives \_\_\_\_\_ bags or gals.

Hourly Distribution

Prepare for ROP and Rig to Drill  
~~Drilling Overburden~~  
~~Non-core Drilling~~  
~~Core Drilling~~ Standby for cement 4  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and \_\_\_\_\_  
lowering rods \_\_\_\_\_  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair \_\_\_\_\_  
Cementing 1 1/2  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_  
Wedging Operations: \_\_\_\_\_  
Explain \_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_  
(See Remarks) 4 hr  
Waiting on BOP  
9:00 to 12:00 3hr  
TOTAL HOURS 9hr

Other Items

Water hauling: Miles \_\_\_\_\_ Hours \_\_\_\_\_  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. \_\_\_\_\_ Size \_\_\_\_\_  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_

Remarks Prepare for BOP  
Cement Surface  
Rig to Drill  
Service Rig

Foreman \_\_\_\_\_  
Driller Jerry Rall  
Helper Prod. Henry - Calvin Galle  
Truck Driver \_\_\_\_\_

HOLE

D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole 640-28

Date: 10-6-77

Shift: Day \_\_\_\_\_

Swing \_\_\_\_\_

Night X

Location: 640-28

Angle: \_\_\_\_\_

Project: Mt Princeton

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ From: \_\_\_\_\_ Drilling: To: 270 Size: 6 1/2 From: 240

Footage Reamed: \_\_\_\_\_ Footage Drilled: 30 ft Core Recovered: \_\_\_\_\_

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_ Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Portland	_____	bags
Lumnite	_____	
Calseal	_____	
Mud	<u>3</u>	
Chemical Additives	_____	bags or gals.
_____	_____	
_____	_____	
_____	_____	
_____	_____	

Hourly Distribution

Drilling Overburden	<u>1 hr</u>
Non-core Drilling	_____
Core Drilling	_____
Reaming	_____
Casing	_____
Pulling and lowering rods	<u>2 hr</u>
Rig-up/Rig-down	_____
Moving	_____
Mixing Mud	<u>1 hr</u>
Equipment Repair	_____
Cementing	_____
a) Washing hole	_____
b) Cementing	_____
c) Drill cement	_____
Delays: Explain	_____
<u>Setting up BOP</u>	<u>7 hr</u>
<u>making parts for BOP</u>	<u>1 1/2 hr</u>
Wedging Operations: Explain	_____
_____	_____
_____	_____
Surveying	_____
Fishing for tools	_____
Other: Explain	_____
_____	_____
_____	_____
TOTAL HOURS	<u>12 1/2</u>

Other Items

Water hauling: Miles 6 Hours 1.5 hr

Core boxes \_\_\_\_\_ Size \_\_\_\_\_

Lost bits \_\_\_\_\_

Lost tools \_\_\_\_\_

Rock bits: No. 77363 Size 6 1/2

Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_

Other: \_\_\_\_\_

Casing Left in Hole:

Size	_____	Feet	_____
_____	_____	_____	_____
_____	_____	_____	_____

Remarks Drain Pits mixed New mud

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Foreman \_\_\_\_\_

Driller John Bort

Helper Bill Lang

Truck Driver Randy Darcy

HOLE

D022869

AMAX EXPLORATION, INC.

Hole \_\_\_\_\_

DRILL SHIFT REPORT  
*Noon to Midnight*

Date: 10-6-77

Shift: Day   
Swing \_\_\_\_\_  
Night \_\_\_\_\_

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

Angle: \_\_\_\_\_

Project: AMAX 5

Reaming: To: \_\_\_\_\_ Size: 6 1/8 Drilling: To: \_\_\_\_\_ Size \_\_\_\_\_  
From: \_\_\_\_\_ From: \_\_\_\_\_

Footage Reamed: \_\_\_\_\_

Footage Drilled: 240

Core Recovered: 490

Casing Placed in Hole: Size: \_\_\_\_\_

Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_

Feet: \_\_\_\_\_

Supplies Used

Hourly Distribution

Portland \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
50 Chemical Additives bags or gals.  
Phosphate 1 bag 100 lb

Drilling Overburden \_\_\_\_\_  
Non-core Drilling 9 hr  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and lowering rods 3 hr  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_

Other Items

Water hauling: Miles 12 Hours 2 hr  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_

Lost bits \_\_\_\_\_

Lost tools \_\_\_\_\_

Rock bits: No. \_\_\_\_\_ Size \_\_\_\_\_

Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_

Other: 6 Med 1

Wedging Operations: Explain \_\_\_\_\_

Casing Left in Hole: Size \_\_\_\_\_ Feet \_\_\_\_\_

Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_

TOTAL HOURS 12

Remarks hole tight on trip out

Foreman \_\_\_\_\_

Driller Jerry Ball

Helper Red Henry - Calvin Gault

Truck Driver \_\_\_\_\_

HOLE

D022869

AMAX EXPLORATION, INC.

Hole 640-28

DRILL SHIFT REPORT

Date: 10-7-77

Shift: Day \_\_\_\_\_  
Swing \_\_\_\_\_  
Night X

Location: 640-28

Angle: \_\_\_\_\_

Project: MT Princeton

Reaming: To: 640 Size: 6 3/8 Drilling: To: 640 Size: 6 3/8  
From: 440 From: 440

Footage Reamed: \_\_\_\_\_ Footage Drilled: 200ft

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_  
Core Recovered: \_\_\_\_\_  
Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Portland \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud 5  
Chemical Additives \_\_\_\_\_ bags or gals.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hourly Distribution

Drilling Overburden 1 1/2  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming 3 1/2  
Casing \_\_\_\_\_  
Pulling and lowering rods 1/2  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair 1 1/2  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain went in Hall Wash to Room  
Wedging Operations: \_\_\_\_\_  
Explain \_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_  
TOTAL HOURS 12 1/2

Other Items

Water hauling: Miles 6 Hours 2  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. 79438 Size 4 3/8  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Remarks Deep Pump Trouble on water truck

Foreman \_\_\_\_\_  
Driller John Bortz  
Helper Bill Long  
Truck Driver Randy Drey

HOLE

D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole 1

Date: 10-7-77

Shift: Day  Swing \_\_\_\_\_ Night \_\_\_\_\_

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

Angle: \_\_\_\_\_

Project: AMAX5

Reaming: To: 640 Size: 6" Drilling: To: 680 Size: 6"  
From: \_\_\_\_\_ From: 640

Footage Reamed: \_\_\_\_\_ Footage Drilled: \_\_\_\_\_

Core Recovered: \_\_\_\_\_

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Feet: \_\_\_\_\_

Supplies Used

Hourly Distribution

Portland	bags	_____
Lumnite	_____	_____
Calseal	_____	_____
Mud	_____	_____
Chemical Additives	bags or gals.	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Drilling Overburden	<u>3</u>
Non-core Drilling	_____
Core Drilling	_____
Reaming	_____
Casing	_____
Pulling and lowering rods	_____
Rig-up/Rig-down	<u>3</u>
Moving	_____
Mixing Mud	<u>2</u>
Equipment Repair	_____
Cementing	_____
a) Washing hole	_____
b) Cementing	_____
c) Drill cement	_____
Delays: Explain	_____

Other Items

Water hauling: Miles \_\_\_\_\_ Hours \_\_\_\_\_

Core boxes \_\_\_\_\_ Size \_\_\_\_\_

Lost bits \_\_\_\_\_

Lost tools \_\_\_\_\_

Rock bits: No. 1 Size 6 in length

Diamond bits: Size 6 Type Drag

Other: \_\_\_\_\_

Wedging Operations: Explain \_\_\_\_\_

Casing Left in Hole: Size \_\_\_\_\_ Feet \_\_\_\_\_

Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_

Mixing Bits  
12:00 - 4:00 p.m.

TOTAL HOURS 8

Remarks \_\_\_\_\_

Foreman \_\_\_\_\_

Driller Jerry Bell

Helper Bob Young Talun Candler

Truck Driver \_\_\_\_\_

HOLES

D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole 604-28

Date: 10-8-77

Shift: Day \_\_\_\_\_

Swing \_\_\_\_\_

Night X

Location: 604-28

Angle: \_\_\_\_\_

Project: Mt. Pinston

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ ? Drilling: To: 730 Size 6"  
From: \_\_\_\_\_ From: 680

Footage Reamed: \_\_\_\_\_ Footage Drilled: 50ft

Core Recovered: \_\_\_\_\_

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Portland	bags
Lumnite	<u>5 mud</u>
Calseal	_____
Mud	_____
Chemical Additives	bags or gals.
_____	_____
_____	_____
_____	_____
_____	_____

Hourly Distribution

Drilling Overburden	<u>3 hr</u>
Non-core Drilling	<u>50ft</u>
Core Drilling	_____
Reaming	_____
Casing	_____
Pulling and lowering rods	<u>2 hr</u>
Rig-up/Rig-down	_____
Moving	_____
Mixing Mud <u>Drained PITs</u>	<u>4 hr</u>
Equipment Repair	_____
Cementing	_____
a) Washing hole	_____
b) Cementing	_____
c) Drill cement	_____
Delays: Explain	_____
<u>Had to Drain Pit</u>	_____
<u>very new mud</u>	_____
Wedging Operations:	_____
Explain	_____
_____	_____
Surveying	_____
Fishing for tools	_____
Other: Explain	_____
_____	_____

Other Items

Water hauling: Miles 12 Hours 4 hr

Core boxes: \_\_\_\_\_ Size \_\_\_\_\_

Lost bits \_\_\_\_\_

Lost tools \_\_\_\_\_

Rock bits: No. 7661 Size 4"

Diamond bits: Size 7661 Type Van

Other: \_\_\_\_\_

Casing Left in Hole:

Size \_\_\_\_\_ Feet \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TOTAL HOURS ? 12 hr

Remarks Had to wait on a back

hoe to clean out pits for

3 hr

Foreman \_\_\_\_\_

Driller John Gorb

Helper Bill Lang

Truck Driver Randy Drey

HOLE

~~No. 10~~  
No. 10 Thermometer



D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole \_\_\_\_\_

Date: 10-8-77

Shift: Day \_\_\_\_\_  
Swing \_\_\_\_\_  
Night \_\_\_\_\_

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

Angle: \_\_\_\_\_

Project: AMAXS

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: \_\_\_\_\_ Size: \_\_\_\_\_  
From: \_\_\_\_\_ From: \_\_\_\_\_

Footage Reamed: \_\_\_\_\_ Footage Drilled: \_\_\_\_\_

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Hourly Distribution

Portland \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives \_\_\_\_\_ bags or gals.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Drilling Overburden \_\_\_\_\_  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and \_\_\_\_\_  
lowering rods \_\_\_\_\_  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_

Other Items

Water hauling: Miles 18 Hours 3 1/2  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. \_\_\_\_\_ Size \_\_\_\_\_  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Wedging Operations: \_\_\_\_\_  
Explain \_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_  
see remark

TOTAL HOURS 12 hr

Remarks cut Rods to Pump Pits 1 hr Foreman \_\_\_\_\_

look for Bank loc 2 hr. Driller Steve Hall

rig repair - Service - Change water 2 hr Helper Red Henry - Calvin Candler

Dig holding pits 3 1/2 Truck Driver \_\_\_\_\_

Get Water - lay down collar 3 1/2

HOLE

Bits 8 3/4 EC 3425'

6" 77363

6" 71113

Drag Bit

6" AF 50037

D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole 604-28

Date: 10-9-77

Shift: Day \_\_\_\_\_  
Swing \_\_\_\_\_  
Night X

Location: 604-28

Angle: \_\_\_\_\_

Project: Mt. Punton

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: 900 Size 6"  
From: \_\_\_\_\_ From: 730

Footage Reamed: \_\_\_\_\_ Footage Drilled: 170

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Portland \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives \_\_\_\_\_ bags or gals.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hourly Distribution

Drilling Overburden 6 hr  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and \_\_\_\_\_  
lowering rods 4 1/2 hr  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole 1  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_  
\_\_\_\_\_  
Wedging Operations: \_\_\_\_\_  
Explain waiting for water  
\_\_\_\_\_  
\_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Other Items

Water hauling: Miles 8 Hours 1 1/2  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No AE500 37 Size 6"  
Diamond bits: Size \_\_\_\_\_ Type Crusher  
Other: \_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TOTAL HOURS 13 hr

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Foreman \_\_\_\_\_  
Driller John Barb  
Helper Bill Jany  
Truck Driver Randy Arney

HOLE

IN	40F	out	10C	DEPT	
	40F	—	10C	—	740
	41F	—	8C	—	750
	40F	—	8C	—	760
	40F	—	8C	—	770
	43F	—	10C	—	780
	42F	—	10C	—	790
	45F	—	12C	—	800
	48F	—	10C	—	810
	45F	—	10C	—	820
	48F	—	10C	—	830
	49F	—	12C	—	840
	49F	—	12C	—	850
	48F	—	12C	—	860
	48F	—	12C	—	870
	48F	—	12C	—	880
	48F	—	12C	—	890
	48F	—	12C	—	900
				↙	900

D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT  
*From the Midnight*

Hole \_\_\_\_\_

Date: 10-9-77

Shift: Day   
Swing \_\_\_\_\_  
Night \_\_\_\_\_

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

Angle: \_\_\_\_\_

Project: AMAXS

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: 1060 Size 6  
From: \_\_\_\_\_ From: 900

Footage Reamed: \_\_\_\_\_ Footage Drilled: 160 ft  
Core Recovered: \_\_\_\_\_

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_  
Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

bags

Portland \_\_\_\_\_  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives \_\_\_\_\_ bags or gals.  
Mud 50 lbs bag 4

Hourly Distribution

Drilling Overburden \_\_\_\_\_  
Non-core Drilling 9.34 hr.  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and lowering rods 2.74 hr.  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_  
Wedging Operations: Explain \_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_

Other Items

Water hauling: Miles \_\_\_\_\_ Hours \_\_\_\_\_  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. AA 50038 Size 6 and 5 1/2  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TOTAL HOURS 12 hr.

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Foreman \_\_\_\_\_  
Driller Terry Robie  
Helper Calvin Landle - Red Hoary  
Truck Driver \_\_\_\_\_

HOLE

D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole 604-28

Date: 10-10-77

Shift: Day \_\_\_\_\_  
Swing \_\_\_\_\_  
Night X

Location: 604-28

Angle: \_\_\_\_\_

Project: MT Princeton

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: \_\_\_\_\_ Size: 5 5/8  
From: \_\_\_\_\_ From: 1060

Footage Reamed: \_\_\_\_\_ Footage Drilled: 240

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Portland \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives 8-50 lb Bags / 1-100 lb Bags bags or gals.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hourly Distribution

Drilling Overburden 8 1/2  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and lowering rods 3 1/2  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud Cleaning pits 1/2  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_  
\_\_\_\_\_

Other Items

Water hauling: Miles 12 Hours 1 hr  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. 06896 Size 5 5/8  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Wedging Operations: Explain \_\_\_\_\_  
\_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_  
\_\_\_\_\_

TOTAL HOURS 12 1/2

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Foreman \_\_\_\_\_  
Driller John Borg  
Helper Bill Lang  
Truck Driver Randy Dwyer

HOLE

# of Sample Every 10 Feet	In Temp in F	Out Temp in C	Depth
1	62F	20 <sup>c</sup>	1070
2	62F	20 <sup>c</sup>	1080
3	66F	15 <sup>c</sup>	1090
4	69F	18 <sup>c</sup>	1100
5	69F	18 <sup>c</sup>	1110
6	66F	18 <sup>c</sup>	1120
7	64F	17 <sup>c</sup>	1130
8	70F	20 <sup>c</sup>	1140
9	74F	20 <sup>c</sup>	1150
10	74F	21 <sup>c</sup>	1160
11	76F	22 <sup>c</sup>	1170
12	73F	21 <sup>c</sup>	1180
13	<del>73F</del>	21 <sup>c</sup>	1190
14	73F	21 <sup>c</sup>	1200
15	68F	20 <sup>c</sup>	1210
16	68F	20 <sup>c</sup>	1220
17	60F	15 <sup>c</sup>	1230
17	60F	15 <sup>c</sup>	1240
17	60F	15 <sup>c</sup>	1250
18	60F	15 <sup>c</sup>	1260
19	64F	18 <sup>c</sup>	
19	64F	18 <sup>c</sup>	1270
20			
21	64F	18 <sup>c</sup>	1280
22	64F	18 <sup>c</sup>	1290
23	64	18 <sup>c</sup>	1300

D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT  
*From to Midnight*

Hole \_\_\_\_\_

Date: 10-10-77

Shift: Day

Swing \_\_\_\_\_

Night \_\_\_\_\_

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

Angle: \_\_\_\_\_

Project: AMAX5

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_  
From: \_\_\_\_\_

Drilling: To: 1420 Size 5 1/8  
From: 1300

Footage Reamed: \_\_\_\_\_

Footage Drilled: 120 ft

Core Recovered: \_\_\_\_\_

Casing Placed in Hole: Size: \_\_\_\_\_

Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_

Feet: \_\_\_\_\_

Supplies Used

bags

Portland \_\_\_\_\_

Lumnite \_\_\_\_\_

Calseal \_\_\_\_\_

Mud \_\_\_\_\_

Chemical Additives bags or gals.

1-50 lb bag 1 gal

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Other Items

Water hauling: Miles 6 Hours 1

Core boxes \_\_\_\_\_ Size \_\_\_\_\_

Lost bits \_\_\_\_\_

Lost tools \_\_\_\_\_

Rock bits: No. 96111 Size 5 1/8

Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_

Other: \_\_\_\_\_

Casing Left in Hole:

Size \_\_\_\_\_ Feet \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Hourly Distribution

Drilling Overburden \_\_\_\_\_

Non-core Drilling 8

Core Drilling \_\_\_\_\_

Reaming \_\_\_\_\_

Casing \_\_\_\_\_

Pulling and \_\_\_\_\_

lowering rods 2 1/2

Rig-up/Rig-down \_\_\_\_\_

Moving \_\_\_\_\_

Mixing Mud 1 1/2

Equipment Repair \_\_\_\_\_

Cementing \_\_\_\_\_

a) Washing hole \_\_\_\_\_

b) Cementing \_\_\_\_\_

c) Drill cement \_\_\_\_\_

Delays: Explain \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Wedging Operations: \_\_\_\_\_

Explain \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Surveying \_\_\_\_\_

Fishing for tools \_\_\_\_\_

Other: Explain \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

TOTAL HOURS 12

Remarks hard

Foreman \_\_\_\_\_

Driller Jess Hall

Helper Red Wray - Calvin Caudle

Truck Driver \_\_\_\_\_

HOLE



D022869

AMAX EXPLORATION, INC.

Hole 1

DRILL SHIFT REPORT

Date: 10-11-77

*Work to Midnight*

Shift: Day  Swing  Night

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

Angle: \_\_\_\_\_

Project: AMAXS

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: 1660 Size 4 3/4  
From: \_\_\_\_\_ From: 1420

Footage Reamed: \_\_\_\_\_ Footage Drilled: 140

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_  
Core Recovered: \_\_\_\_\_  
Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Hourly Distribution

Portland \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives \_\_\_\_\_ bags or gals.  
2 Bag 50 lb. gall 2

Drilling Overburden \_\_\_\_\_  
Non-core Drilling 8  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and lowering rods 3  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud hal water 1  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_  
Wedging Operations: \_\_\_\_\_  
Explain \_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_

Other Items

Water hauling: Miles 6 Hours 1  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. CK-353 Size 4 3/4  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TOTAL HOURS 12

Remarks Hard  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Foreman \_\_\_\_\_  
Driller Terry Dahl  
Helper Red honey Cabern Condl  
Truck Driver \_\_\_\_\_

HOLE

D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole 604-28

Date: 10-11-77

Shift: Day \_\_\_\_\_  
Swing \_\_\_\_\_  
Night X

Location: 604-29

Angle: \_\_\_\_\_

Project: \_\_\_\_\_

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: 0 Size 0  
From: \_\_\_\_\_ From: 0

Footage Reamed: \_\_\_\_\_ Footage Drilled: 0

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Hourly Distribution

Portland \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives \_\_\_\_\_ bags or gals.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Drilling Overburden \_\_\_\_\_  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and \_\_\_\_\_  
lowering rods \_\_\_\_\_  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_

Other Items

Water hauling: Miles \_\_\_\_\_ Hours \_\_\_\_\_  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. \_\_\_\_\_ Size \_\_\_\_\_  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Wedging Operations: \_\_\_\_\_  
Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TOTAL HOURS

12 hr

Remarks waited on Bits &

Foreman \_\_\_\_\_

subs 12:00 PM to 10:00 AM

Driller John Bortz

Drained and cleaned casing

Helper Pill Lang

Ching up from 10:00 AM to 12:00 AM

Truck Drive Randy Drey

HOLE

~~647~~

~~180~~

~~1570~~

1580

1590

1600

1610

1620

1630

1640

1650

1660

1670

1680

1690

1700



IN	OUT	DEPT
64 F	18 C	1570
72 F	22 C	1580
70 F	20 C	1590
70 F	20 C	1600
70 F	20 C	1610
70 F	20 C	1620
60 F	15 C	1630
58 F	15 C	1640
58 F	18 C	1650
60 F	20 C	1660
60 F	20 C	1670
60 F	20 C	1680
60 F	20 C	1690
		1700





IN		OUT		APT
	58°F		20°C	1770
20°C	60°F	58°F	22°C	1780
22°C	64°F	60°F	22°C	1790
22°C	64°F	64°F	22°C	1800
	65°F		22°C	1810
	64°F		22°F	1820
	66°F		22°F	1830
	64		22	1840
	62		21	1850
	60		20	1860
	67°F		23°C	1870
	69°F		24°C	1880
	69°F		24°C	1890
	70°F		25°C	1900





D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole 60428

Date: \_\_\_\_\_

Shift: Day \_\_\_\_\_

Swing \_\_\_\_\_

Night X

Location: 604-28

Angle: \_\_\_\_\_

Project: Mid Pleasant

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: \_\_\_\_\_ Size: 4 1/4  
From: \_\_\_\_\_ From: 1470

Footage Reamed: \_\_\_\_\_ Footage Drilled: 30ft

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

bags

Portland \_\_\_\_\_  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives bags or gals. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Other Items

Water hauling: Miles 0 Hours 0  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. \_\_\_\_\_ Size \_\_\_\_\_  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Hourly Distribution

Drilling Overburden 4  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_  
Pulling and lowering rods 2 1/2  
Rig-up/Rig-down \_\_\_\_\_  
Moving \_\_\_\_\_  
Mixing Mud 1/2  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_  
\_\_\_\_\_  
Wedging Operations: \_\_\_\_\_  
Explain \_\_\_\_\_  
\_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_  
\_\_\_\_\_  
TOTAL HOURS 12 hr

Remarks Pulling B.P.O. and setting  
up of lower 1 1/4 Pipe 2 1/2  
Setting 1 1/4 Pipe 2 1/2

Foreman \_\_\_\_\_  
Driller John Bort  
Helper Bill Lang  
Truck Driver Randy Jones

HOLE

On 74 F

out 22 C

Sept 1980

74 F

22 C

1990

74

22 C

2000

D022869

AMAX EXPLORATION, INC.

DRILL SHIFT REPORT

Hole 1

Date: 10-14-77

Shift: Day   
Swing   
Night

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

Angle: \_\_\_\_\_

Project: AMAXS

Reaming: To: \_\_\_\_\_ Size: \_\_\_\_\_ Drilling: To: \_\_\_\_\_ Size: \_\_\_\_\_  
From: \_\_\_\_\_ From: \_\_\_\_\_

Footage Reamed: \_\_\_\_\_ Footage Drilled: \_\_\_\_\_

Casing Placed in Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Casing Removed from Hole: Size: \_\_\_\_\_ Feet: \_\_\_\_\_

Supplies Used

Hourly Distribution

Portland \_\_\_\_\_ bags  
Lumnite \_\_\_\_\_  
Calseal \_\_\_\_\_  
Mud \_\_\_\_\_  
Chemical Additives \_\_\_\_\_ bags or gals.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Drilling Overburden \_\_\_\_\_  
Non-core Drilling \_\_\_\_\_  
Core Drilling \_\_\_\_\_  
Reaming \_\_\_\_\_  
Casing \_\_\_\_\_ 2  
Pulling and \_\_\_\_\_  
lowering rods \_\_\_\_\_  
Rig-up/Rig-down \_\_\_\_\_ 2  
Moving \_\_\_\_\_  
Mixing Mud \_\_\_\_\_  
Equipment Repair \_\_\_\_\_  
Cementing \_\_\_\_\_ 1  
a) Washing hole \_\_\_\_\_  
b) Cementing \_\_\_\_\_  
c) Drill cement \_\_\_\_\_  
Delays: Explain \_\_\_\_\_

Other Items

Water hauling: Miles \_\_\_\_\_ Hours \_\_\_\_\_  
Core boxes \_\_\_\_\_ Size \_\_\_\_\_  
Lost bits \_\_\_\_\_  
Lost tools \_\_\_\_\_  
Rock bits: No. \_\_\_\_\_ Size \_\_\_\_\_  
Diamond bits: Size \_\_\_\_\_ Type \_\_\_\_\_  
Other: \_\_\_\_\_

Wedging Operations: \_\_\_\_\_  
Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Surveying \_\_\_\_\_  
Fishing for tools \_\_\_\_\_  
Other: Explain \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Casing Left in Hole:  
Size \_\_\_\_\_ Feet \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

TOTAL HOURS 5

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Foreman \_\_\_\_\_  
Driller Ferry Ralt  
Helper Redberry Carter Cavall  
Truck Driver \_\_\_\_\_

HOLE