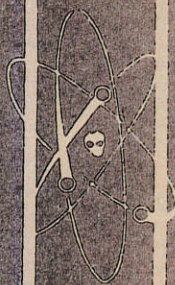


GOODWELL, INC.



SONIC CEMENT BOND

COUNTY _____
FIELD or LOCATION _____
WELL _____

COMPANY _____

COMPANY

GOLDEN RUCKEY PETROLEUM CORP.

WELL

GUNNHEER #18-1

FIELD

WATTENBERG

COUNTY

WELD

STATE COLORADO

LOCATION

NW - NE

Sec. 18

Twp. 5N

Rge. 64W

Other Services:

PERFORATE

Permanent Datum: GROUND LEVEL _____, Elev. 4621
Log Measured From K.B. _____, 10 ft. Above Perm. Datum
Drilling Measured From K.B. _____

Elev. K.B. 4621
D.F. _____
G.L. 4621

Date 2-22-85

Type Fluid in Hole

H₂O

Run No.

ONE

Dens. _____

Visc. _____

Depth—Driller

6970

Max. Rec. Temp. _____

Depth—logger

6863

Est. Cement Top 6250

31m. Log Interval

6860

Equip. Location

814

GREENEY

Top Log Interval

6200

Recorded By

C.S. BAKER

Open Hole Size

7 7/8

Witnessed By

M.B. TONGUE

CASING REC.

Size

8 5/8

Grade

Type Joint

Top

Bottom

Surface String

8 5/8

Grade

Type Joint

Top

Bottom

Prod. String

4 1/2

Grade

Type Joint

Top

Bottom

Liner

4 1/2

Grade

Type Joint

Top

Bottom

PRIMARY CEMENTING DATA

STRING

Surface

Protection

Production

Liner

Vol. of cement

Type of cement

Additive

Additive by %

Retarder

Retarder by %

COMPRESSIVE STRENGTH (p.s.i.) Curing Temp.)

Surface	Protective	Production	Liner
° F	° F	° F	° F
° F	° F	° F	° F
° F	° F	° F	° F

PRIMARY CEMENTING PROCEDURE

Hour — date	Hours from start of operation	Equipment Data
		Type standoff
		Logging speed
		Bias: Max.
		Cartridge No.
		Spacing
Volume _____ bbls.		Pipe reciprocated during Pumping: Yes _____ No _____
Full _____ Partial _____ None _____		Pipe reciprocated after plug down: Yes _____ min., No _____

CEMENT BOND

VARIABLE DENSITY

DEPTHS

5" = 100'

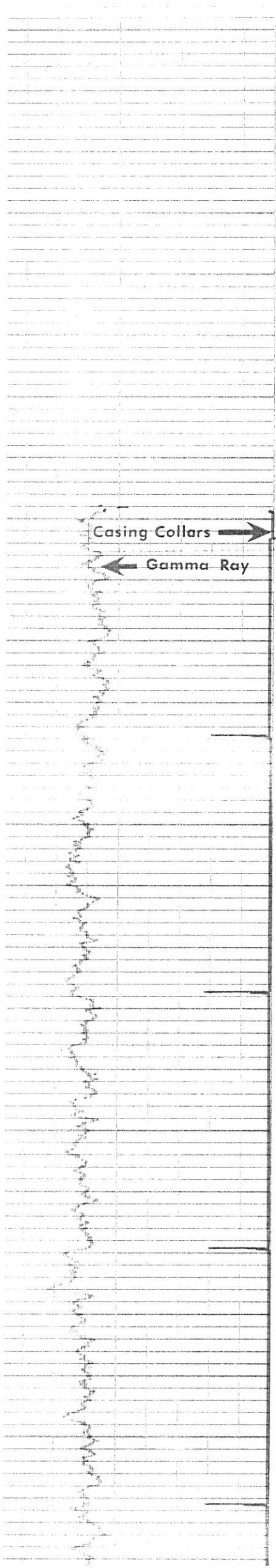
AMPLITUDE INCREASES

1200 FORMATION TIME 200

MICRO SECONDS PER 3 FEET

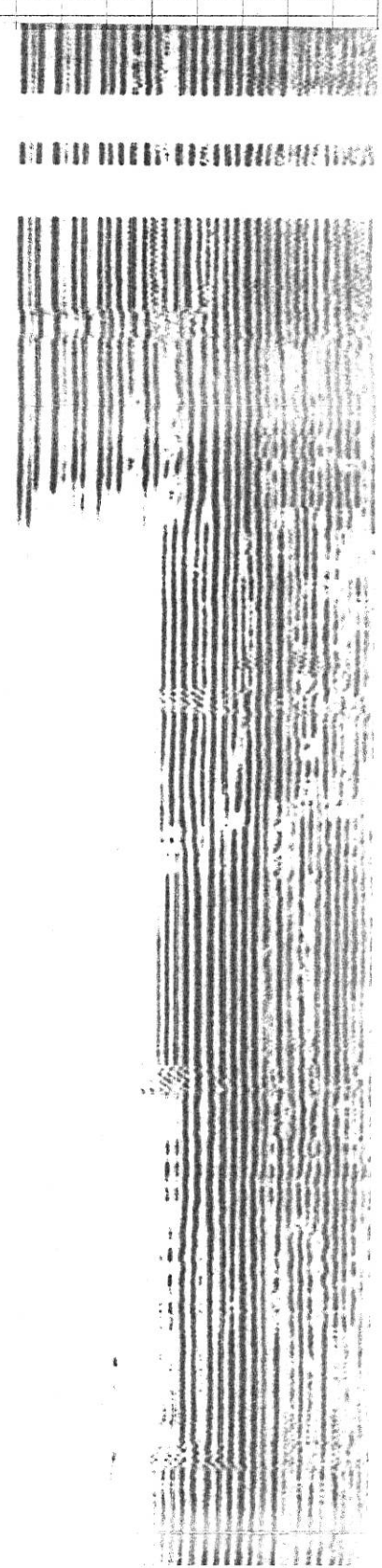
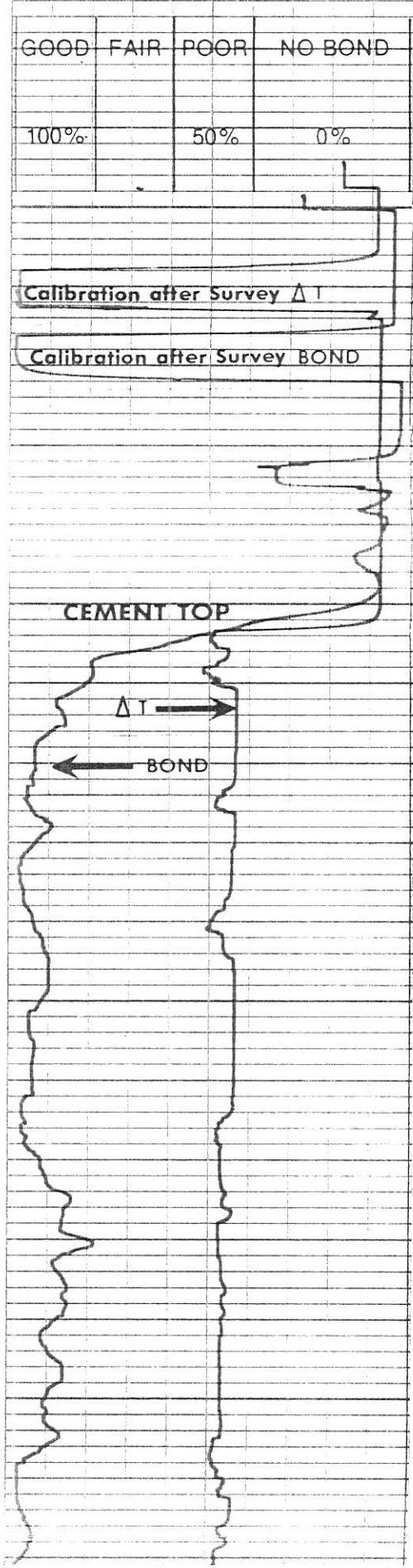
0 1200

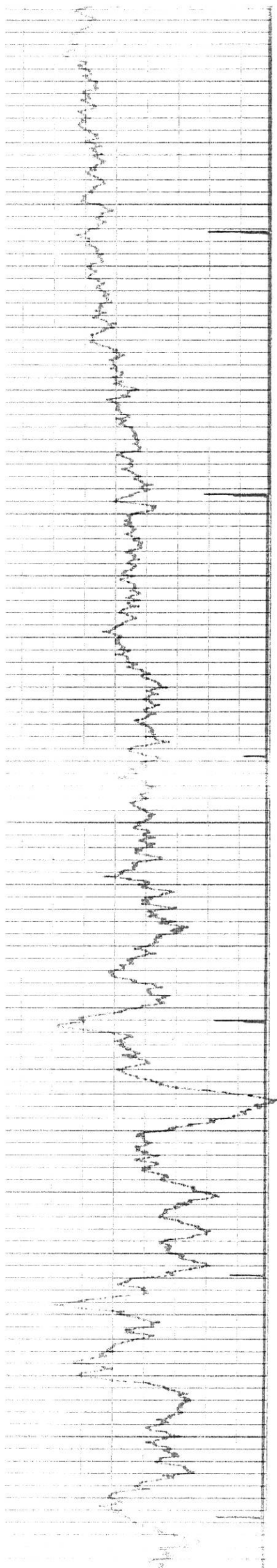
CASING COLLARS



6200

6300





6400

6500

6600

