Schlumberger

FORMATION DENSITY-COMPENSATED NEUTRON

CSU Field Log

COMPANY:	ARCO OIL AND GAS COMPANY
WELL:	LONGVIEW FIBRE #23-25
FIELD:	MIST GAS FIELD
COUNTY:	COLUMBIA
STATE:	OREGON
LOCATION:	3050'S & 1800'E OF THE NW CORNER OF

SEC: 25 TWP: 6N RGE: 5W

PERMANENT DATUM:	GL	ELEVATIONS-	
ELEV. OF PERM. DATUM:	900.0 F	KB:	912.0 F
LOG MEASURED FROM:	KB	DF:	
12.0 F	ABOVE PERM. DATUM	GL:	900.0 F
DRLG. MEASURED FROM:	KB		

DATE:	7 DEC 85
RUN NO:	1

DEPTH-DRILLER:	1978.0 F
DEPTH-LOGGER:	1976.0 F
BTM. LOG INTERVAL:	1975.0 F
TOP LOG INTERVAL:	418.0 F
CASING-DRILLER:	417.0 F
CASING-LOGGER:	417.0 F
CASING:	9.625
WEIGHT:	
BIT SIZE:	8.75
DEPTH:	1978.0 F

RECEIVED
DEC 10 1985
DOGAMI
Portland

OTHER SERVICES-
DIL
BHC
HDT
SAT
SWS

PROGRAM
TAPE NO:
28.2A
SERVICE
ORDER NO:
450596

TYPE FLUID IN HOLE:	GEL POLYMER
DENSITY:	13.10 LB/G
VISCOSITY:	50.0 S
PH:	9.8
FLUID LOSS:	5.2 C3
SOURCE OF SAMPLE:	FLOWLINE
RM:	4.310 OHMM AT 62.0 DEGF
RMF:	4.150 OHMM AT 47.0 DEGF
RMC:	5.450 OHMM AT 52.0 DEGF
SOURCE RMF/RMC:	MEASURED/MEASURED
RM AT BHT:	3.304 OHMM AT 83.0 DEGF
RMF AT BHT:	2.490 OHMM AT 83.0 DEGF
RMC AT BHT:	3.573 OHMM AT 83.0 DEGF
TIME CIRC. STOPPED:	06:00 12-7
TIME LOGGER ON BTM.:	19:00 12-7
MAX. REC. TEMP:	83.0 DEGF
LOGGING UNIT NO:	8126
LOGGING UNIT LOC:	SACRAMENTO
RECORDED BY:	REINIG
WITNESSED BY:	ANDERSON

REMARKS:

EQUIPMENT NUMBERS-

PGS-HB 542 CNC-A 1132 SGC-JAA 466 NLM-BC 456

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 28.2A FILE 7 07-DEC-85 19:56
DATA ACQUIRED NA

EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

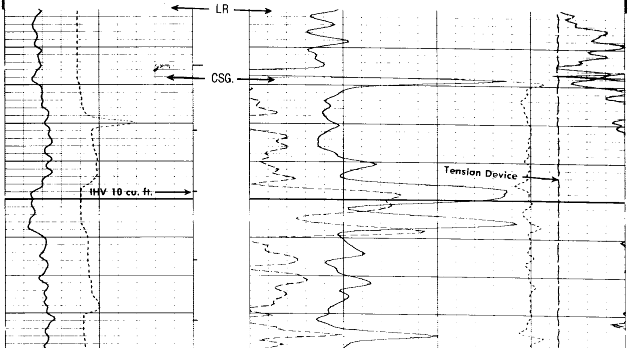
CP 28.2A FILE 7 07-DEC-85 19:55
DATA ACQUIRED NA

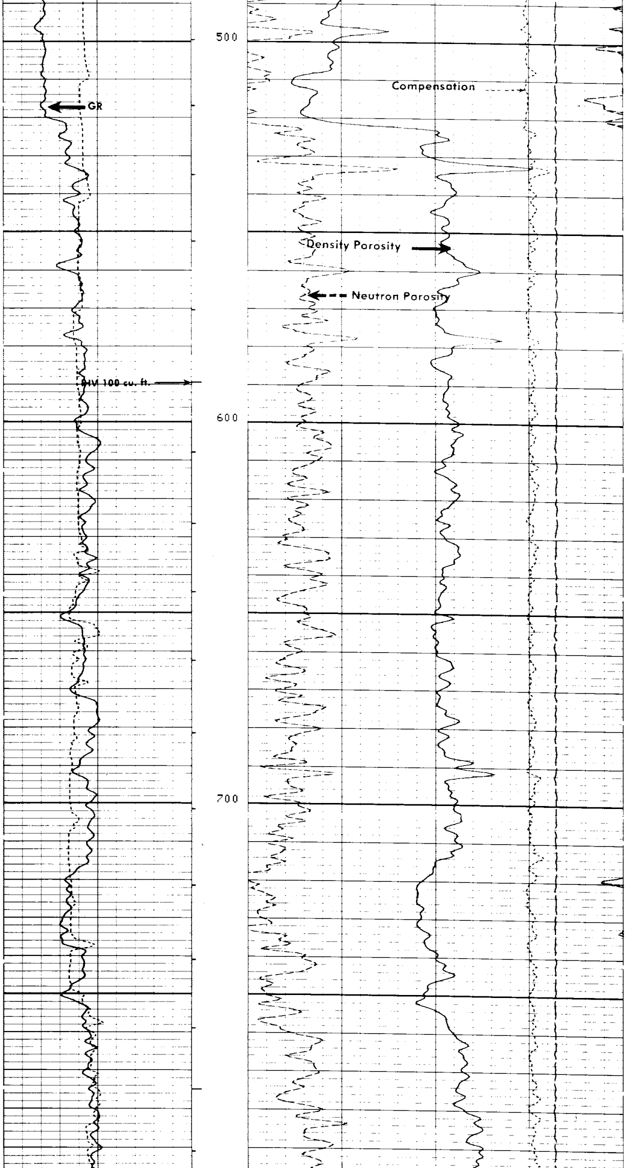
EVENT MARK SUMMARY:

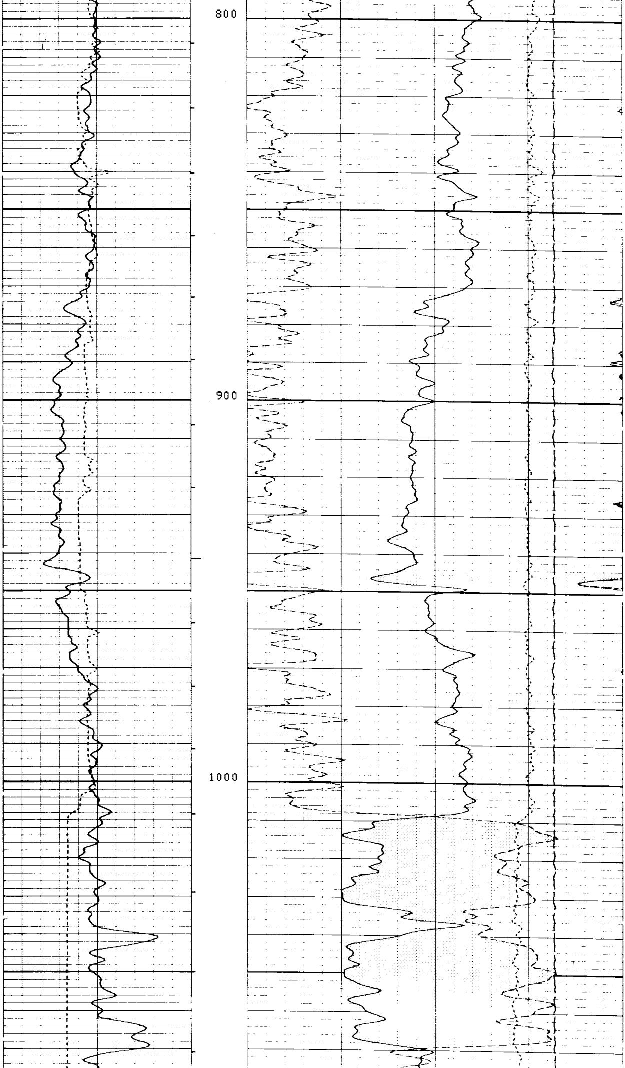
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
IHV	10.0000 F3	LEFT EDGE

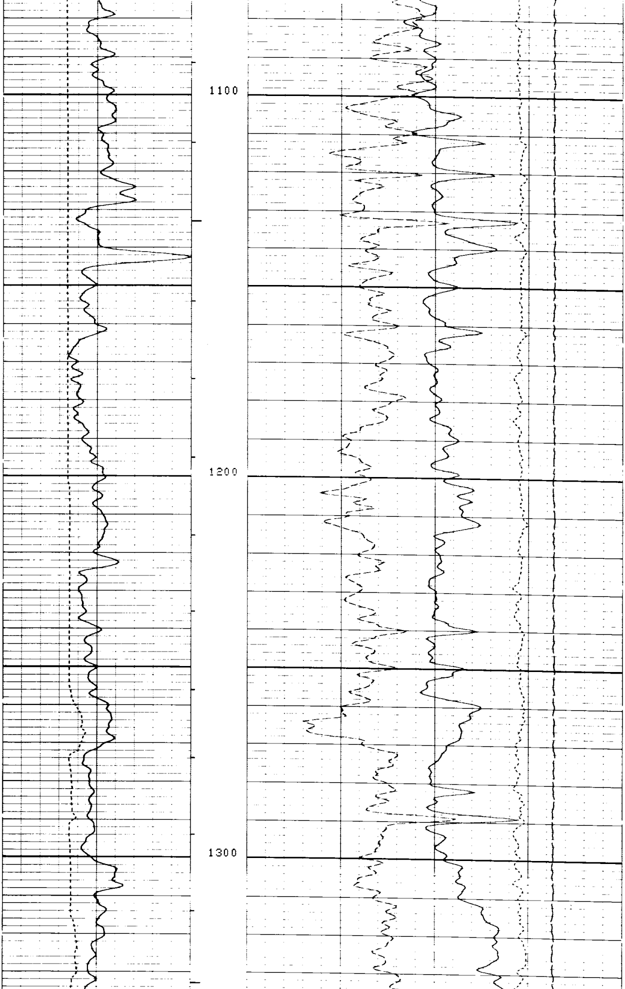
TENS(LB)
10000. 0.0
DRHO(G/C3)
-.2500 .25000
DPHI
1.2000 .60000
NPHI
1.2000 .60000
CALI(IN)
6.0000 16.000
NPHI
.60000 0.0
GR (GAPI)
0.0 150.00
DPHI
.60000 0.0

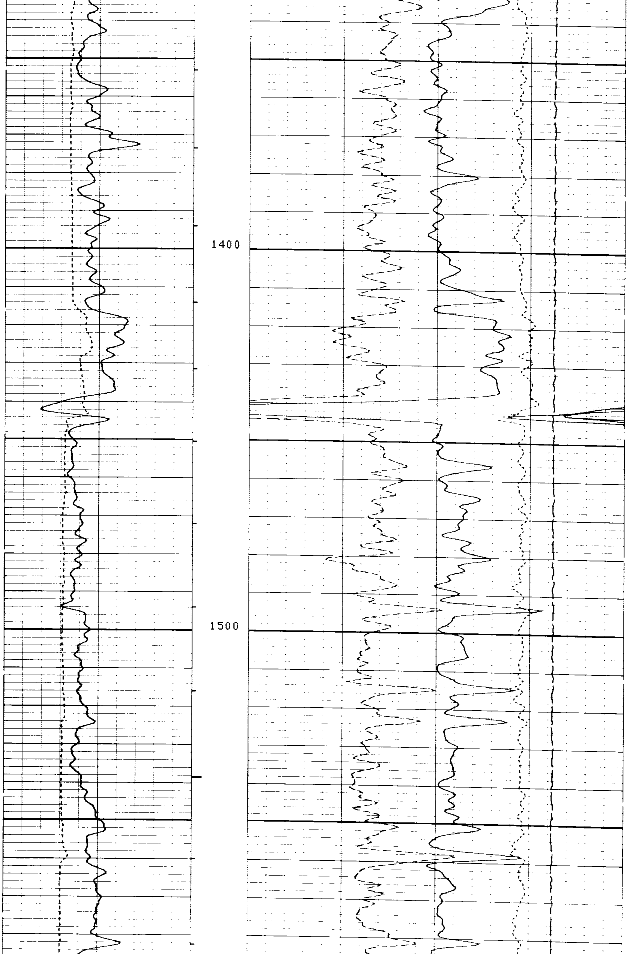
CP 28.2A FILE 4 07-DEC-85 19:47

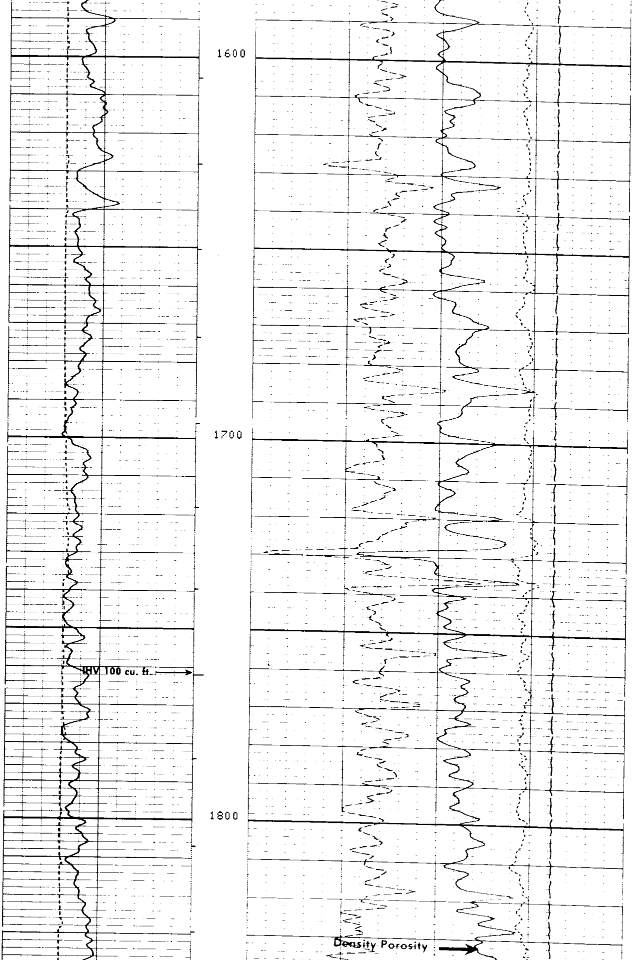


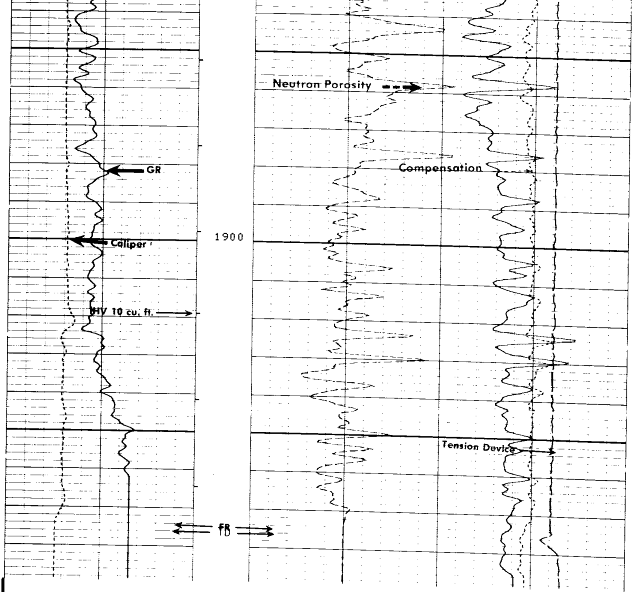












CP 28.2A FILE 4 07-DEC-85 18:56

Curve	Left	Right
TENS(LB)	10000.	0.0
DRHO(G/C3)	-.2500	.25000
DPHI	1.2000	.60000
NPHI	1.2000	.60000
NPHI	.60000	0.0
DPHI	.60000	0.0
CALI(IN)	6.0000	16.000
GR (GAPI)	0.0	150.00

SENSOR MEASURE POINT TO TOOL ZERO

FCNL	18.1	FEET	GR	26.6	FEET
FFDC	2.7	FEET	NCNL	18.1	FEET
CALI	2.7	FEET	NFDC	2.7	FEET
NRAT	18.1	FEET	TENS	-.3	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
HC	CALI		PSNR	2.30000	
FD	1.00000	G/C3	MATR	SAND	
FDCC	ALLD		MDEN	2.65000	G/C3
WMUD	13.0000	LB/G	BHF	WATE	
BS	8.75000	IN	BHS	OPEN	

EVENT MARK SUMMARY:

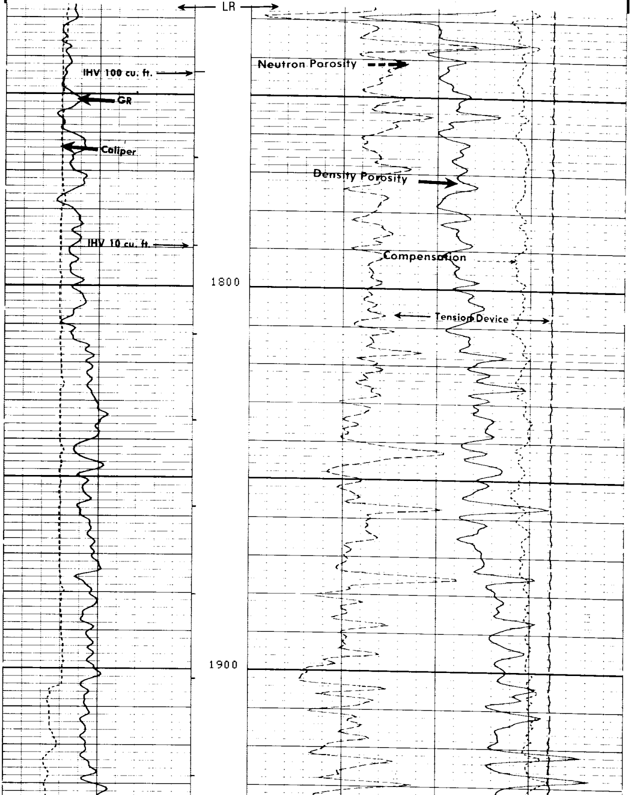
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
IHV	10.0000 F3	LEFT EDGE

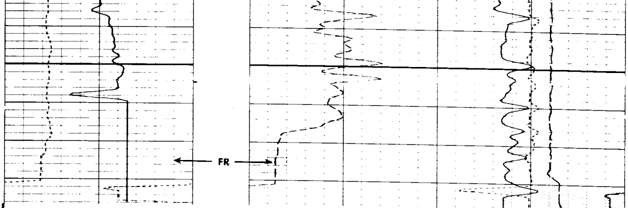
CALI(IN)
6.0000 16.000
GR (GAPI)
0.0 150.00

TENS(LB)
10000. 0.0
DRHO(G/C3)
-.2500 .25000
DPHI
1.2000 .60000
NPHI
1.2000 .60000
NPHI
.60000 0.0
DPHI
.60000 0.0

REPEAT SECTION REPEAT SECTION

CP 28.2A FILE 3 07-DEC-85 18:55





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CP 28.2A              FILE    3       07-DEC-85 18:46
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REPEAT SECTION

```
                                                           TENS(LB  )
                                                     10000.             0.0
                                                           DRHO(G/C3)
                                                     -.2500          .25000
                                        DPHI
                          1.2000
                                                                     .60000
                                        NPHI
                          1.2000
                                                                     .60000
        CALI(IN  )                      NPHI
6.0000           16.000   .60000
                                                                        0.0
      GR  (GAPI)                        DPHI
0.0              150.00   .60000                                        0.0
```

```
              SENSOR MEASURE POINT TO TOOL ZERO

     FCNL 18.1   FEET                    GR    26.6  FEET
     FFDC  2.7   FEET                    NCNL  18.1  FEET
     CALI  2.7   FEET                    NFDC   2.7  FEET
     NRAT 18.1   FEET                    TENS   -.3  FEET
```

```
                          PARAMETERS

   NAME  VALUE        UNIT               NAME  VALUE        UNIT

   HC    CALI                            PSNR  2.30000
   FD    1.00000      G/C3               MATR  SAND
   FDCC  ALLO                            MDEN  2.65000      G/C3
   WMUD  13.0000      LB/G               BHF   WATE
   BS    8.75000      IN                 BHS   OPEN
```

```
              BEFORE SURVEY CALIBRATION SUMMARY


   PERFORMED:     07-DEC-85 18:19
   PROGRAM FILE:  ISN    (VERSION    28.2A   85/10/26)


  SGTE              DETECTOR CALIBRATION SUMMARY

             MEASURED
          BKGD     JIG         CALIBRATED          UNITS
     GR    33      197            160              GAPI


  CNTA              DETECTOR CALIBRATION SUMMARY

                TANK                            JIG
          INPUT   CALIBRATED           MEASURED    CALIBRATED
   NRAT   2.30000  2.158                2.390       2.243
```

```
PGTK                 DETECTOR CALIBRATION SUMMARY

GAIN COMPUTED FROM SHOP BLOCK COUNTS

                 BLOCK                          JIG
          INPUT   CALIBRATED         MEASURED     CALIBRATED     UNITS
  FFDC     497       337                511          346          CPS
  NFDC    1072       528               1035          510          CPS

PGTK                 CALIPER CALIBRATION SUMMARY

            MEASURED                        CALIBRATED
          SMALL    LARGE                SMALL       LARGE        UNITS
  CALI    9.81     15.4                 6.00        12.0          IN

   CP 28.2A           FILE     1       07-DEC-85 18:18


               AFTER SURVEY TOOL CHECK SUMMARY


  PERFORMED:     07-DEC-85 19:58
  PROGRAM FILE:  ISN     (VERSION    28.2A   85/10/26)

CNTA                        TOOL   CHECK

                         JIG
               BEFORE         AFTER
  NRAT         2.243          2.230

  POROSITY CHANGE  (LIME):   -.001

PGTK                        TOOL   CHECK

                         JIG
               BEFORE         AFTER       UNITS
  FFDC          346            347         CPS
  NFDC          510            511         CPS

  RHOB  CHANGE (WATER):   -.001 G/C3

   CP 28.2A           FILE     7       07-DEC-85 19:58
```

```
                    SHOP SUMMARY


  PERFORMED:     20-NOV-85 10:20
  PROGRAM FILE:  SHOP    (VERSION    28.2A   85/07/10)

CNTA                 DETECTOR CALIBRATION SUMMARY

              TANK                           JIG
       MEASURED   CALIBRATED      MEASURED    CALIBRATED

  NRAT     2.300       2.158          2.306        2.165

                       (CNC:1132, CNB:3200)

                    SHOP SUMMARY


  PERFORMED:     20-NOV-85 16:00
  PROGRAM FILE:  SHOP    (VERSION    28.2A   85/07/10)

PGTK                 DETECTOR CALIBRATION SUMMARY

              BLOCK                          JIG
       MEASURED    CALIBRATED     MEASURED    CALIBRATED      UNITS

  FFDC    497         337            512          348          CPS
  NFDC   1072         528           1031          508          CPS

          (PGS:542 , PDH:1244, GSR:8016, SFT :1171)
```