ATLAS WIRELINE SERVICES
Western Atlas International

DUAL INDUCTION FOCUSED LOG
3-ARM CALIPER
GAMMA RAY

COMPANY	SNYDER OIL CORPORATION
WELL	STATE 36-317
FIELD	WATTENBERG
COUNTY	WELD STATE COLORADO

LOCATION:
NE NW

OTHER SERVICES

SEC 36 TWP 4N RGE 67W

PERMANENT DATUM GROUND LEVEL ELEVATION 4765 FT.
LOG MEASURED FROM K.B. 11 FT. ABOVE PERMANENT DATUM
DRILL. MEAS. FROM KELLY BUSHING

ELEVATIONS
KB 4776'
DF
GL 4765'

RECEIVED
MAY 1 9 1994
COLO. OIL & GAS CONS. COMM.

DATE	2 FEB 94			
RUN	1			
SERVICE ORDER	132409			
DEPTH DRILLER	7470'			
DEPTH LOGGER	7475'			
BTM LOGGED INTERVAL	7473'			
TOP LOGGED INTERVAL	460'			
CASING DRILLER	8 5/8" @ 460'	@	@	@
CASING LOGGER	460'			
BIT SIZE	7 7/8"			
TYPE FLUID IN HOLE	CHEM GEL			
DENSITY / VISCOSITY	9.6 | 34			
PH / FLUID LOSS	N/A | N/A			
SOURCE OF SAMPLE	MUD TANK			
RM AT MEAS. TEMP.	4.21 @65 F	@	@	@
RMF AT MEAS. TEMP.	3.16 @65 F	@	@	@
RMC AT MEAS. TEMP.	5.26 @65 F	@	@	@
SOURCE OF RMF / RMC	CALC. | CALC.			
RM AT BHT	1.38 @198 F	@	@	@
TIME SINCE CIRCULATION	6 HRS			
MAX REC TEMP. DEG. F	198 F			
EQUIP. NO / LOCATION	HL 6401 | FT. MORGAN			
RECORDED BY	FREDERICKS/PINE			
WITNESSED BY	TED SHELDON			

FOLD HERE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

REMARKS

BOREHOLE VOLUME COMPUTED FOR 3.5" CASING.
CALIPER VERIFIED IN CASING.

RIG: EXETER #23
CREW: BLAKE & SMITH

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	GR	46786	1309XA	FREE
1	1	CAL	34194	4209XA	3 ARM
1	1	DIFL	52723	1503XA	1.5" S.O.

FILE: 2

CURVE DELAY REPORT

CURVE	PHYS. DELAY	UNITS
CFOC	0	FT,IN
CILM	6,0	FT,IN
VILM	6,0	FT,IN
CILD	9,3	FT,IN
VILD	9,3	FT,IN
SP	9,3	FT,IN
GR	23,6	FT,IN
CAL	32,6	FT,IN

PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
O.D.	7499 TO 412	3.500	INCH
RW	7499 TO 412	0.000	OHM-M

DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: SNYDER OIL CORPORATION
RUN: 1
WELL NAME: STATE 36-317
TRIP: 1
SERVICE: KR212L FILE: 2 DATE: 02/02/94
TIME: 00:56:18
REVISION: FSYS256 REV:G002 VER:2.0
MODE: RECORD

RDLI (OHMM)
0 500
RDLI (OHMM)
0 50
RFLI (OHMM)
0 10
VOL (CUFT) RFLI (OHMM)
0 30 0 500
CAL (INCH) RFLI (OHMM)
6 16 0 50
GR (API) TEN (LBS)
0 200 4750 -250
SP (MV) CILD (MMHO)
0 100 1000 0

FILE: 2

FILE: 2

CURVE DELAY REPORT

CURVE	PHYS. DELAY	UNITS
CFOC	0	FT,IN
CILM	6,0	FT,IN
VILM	6,0	FT,IN
CILD	9,3	FT,IN
VILD	9,3	FT,IN
SP	9,3	FT,IN
GR	23,6	FT,IN
CAL	32,6	FT,IN

PARAMETERS

NAME	DEPTH INTERVAL	VALUE	UNITS
O.D.	7499 TO 412	3.500	INCH
RW	7499 TO 412	0.000	OHM-M

DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: SNYDER OIL CORPORATION RUN: 1
WELL NAME: STATE 36-317 TRIP: 1
SERVICE: KR212L FILE: 2 DATE: 02/02/94 TIME: 00:56:18
REVISION: FSYS256 REV:G002 VER:2.0 MODE: RECORD

VOL (CUFT) RILD (OHMM)
0 30 0.2 2000
CAL (INCH) RILM (OHMM)
6 16 0.2 2000
GR (API) RFOC (OHMM)
0 200 0.2 2000
SP (MV) TEN (LBS)
0 100 4750 -250

04800
04900
05000
05100
05200
05300
05400
05500
05600
05700
05800
05900
06000
06100
06200
06300
06400
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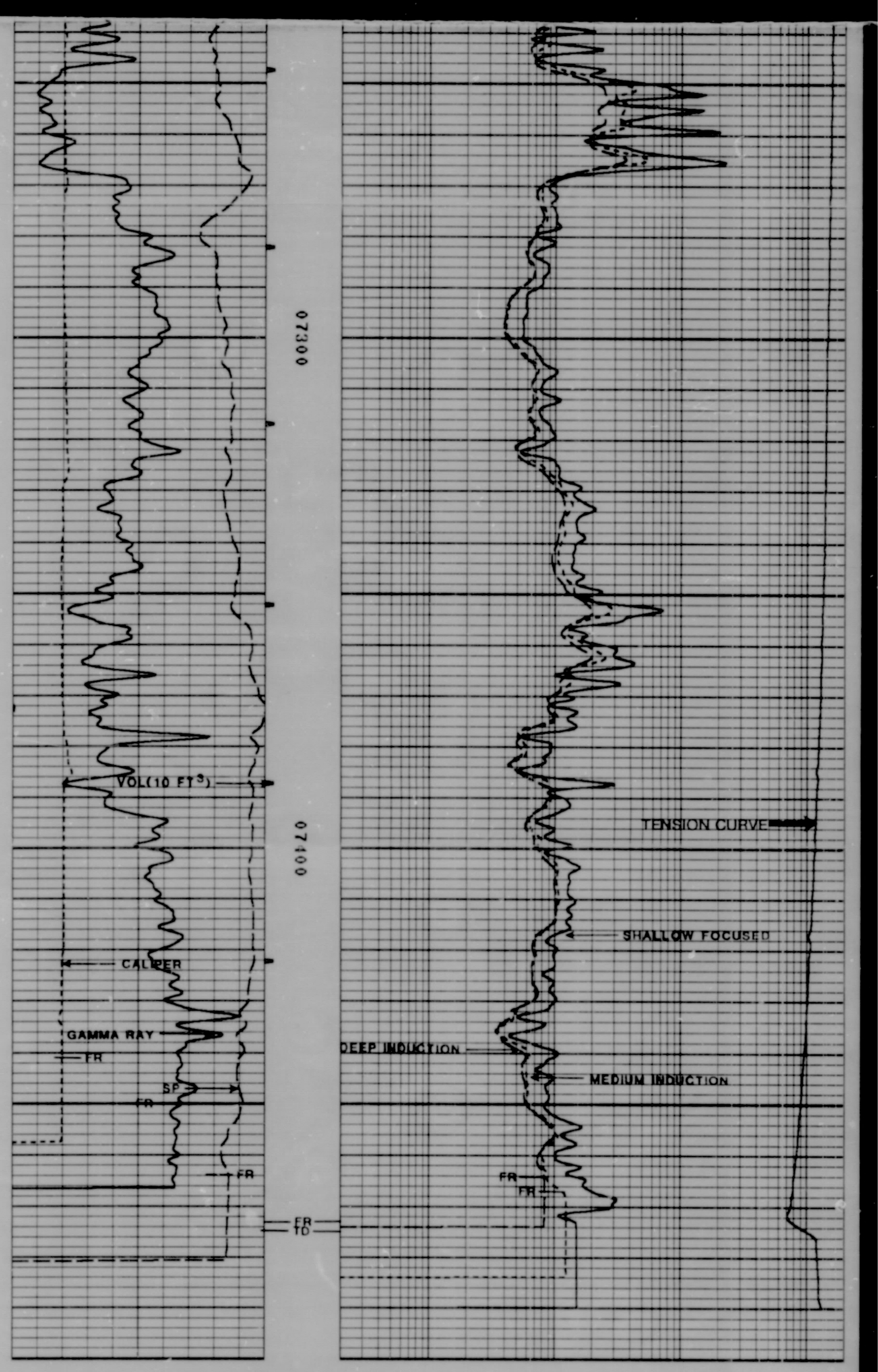
06800
06900
07000
07100
07200



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                 VOL(CUFT)                        RILD(OHMM)
                      0 30   0.2                                       2000
        CAL(INCH)                                 RILM(OHMM)
6                       16   0.2                                       2000
        GR(API)                                   RFOC(OHMM)
0                      200   0.2                                       2000
        SP(MV)                                              TEN(LBS)
0                      100                            4750             -250

                               FILE:  2
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REPEAT SECTION

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                               FILE:  1

        CURVE  DELAY  REPORT
        --------------------

                          PHYS.
                   CURVE  DELAY  UNITS
                   -----  -----  -----

                   CFOC       0  FT,IN
                   CILM     6,0  FT,IN
                   VILM     6,0  FT,IN
                   CILD     9,3  FT,IN
                   VILD     9,3  FT,IN
                   SP       9,3  FT,IN
                   GR      23,6  FT,IN
                   CAL     32,6  FT,IN


        PARAMETERS
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                NAME      DEPTH INTERVAL    VALUE    UNITS
              --------    --------------  ---------- -----
              O.D.          7509 TO  7188      3.500 INCH
              RW            7509 TO  7188      0.000 OHM-M


        DISPLAY SCALE CHANGES
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                            *** NONE ***

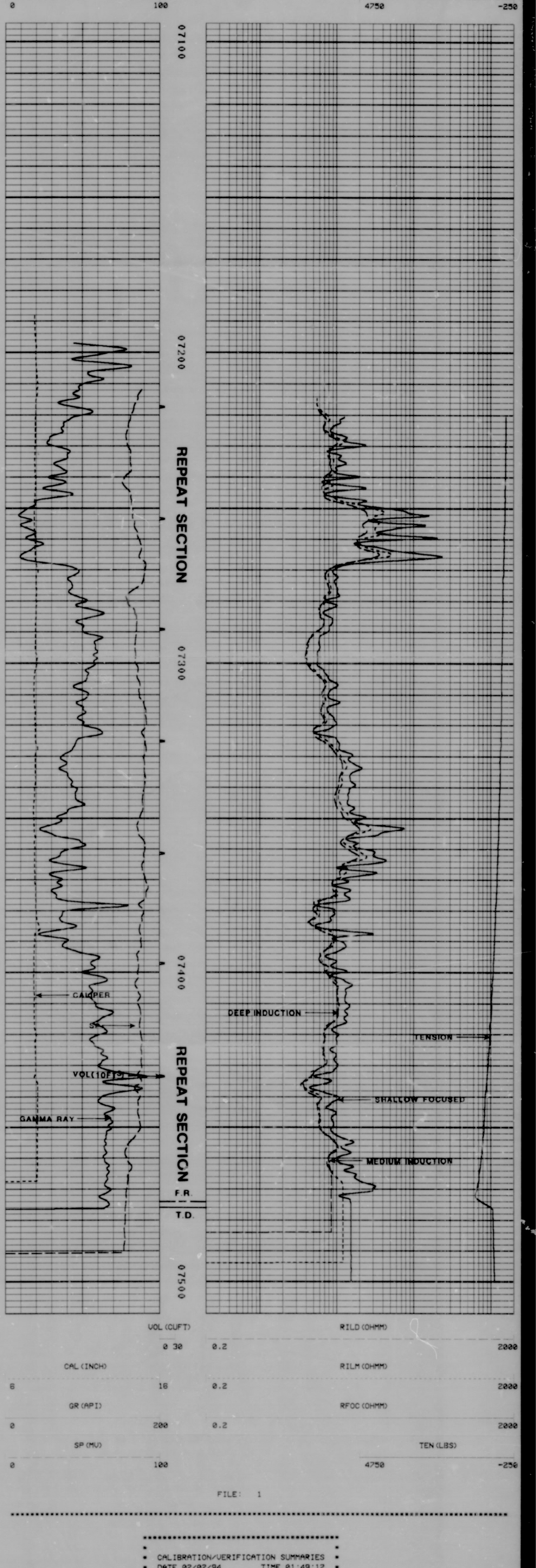
COMPANY:    SNYDER OIL CORPORATION                        RUN:  1

WELL NAME:  STATE 36-317                                  TRIP: 1

SERVICE:    KR212L       FILE:  1      DATE:  02/02/94    TIME: 00:49:34

REVISION:   FSYS256 REV:G002 VER:2.0                      MODE: RECORD

                 VOL(CUFT)                        RILD(OHMM)
                      0 30   0.2                                       2000
        CAL(INCH)                                 RILM(OHMM)
6                       16   0.2                                       2000
        GR(API)                                   RFOC(OHMM)
0                      200   0.2                                       2000
        SP(MV)                                              TEN(LBS)
0                      100                            4750             -250
```



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                 VOL(CUFT)                        RILD(OHMM)
                      0 30   0.2                                       2000
        CAL(INCH)                                 RILM(OHMM)
6                       16   0.2                                       2000
        GR(API)                                   RFOC(OHMM)
0                      200   0.2                                       2000
        SP(MV)                                              TEN(LBS)
0                      100                            4750             -250

                               FILE:  1

             ****************************************
             *                                      *
             * CALIBRATION/VERIFICATION SUMMARIES  *
             * DATE 02/02/94        TIME 01:49:12   *
             * RUN  1               TRIP 1          *
             *                                      *
             ****************************************


      LOG NAME DIFL    ASSET NO. 52723    UNIT NO. HL 6401
    CALIBRATION ENTERED ON  02/02/94 AT 01:42:56

  CURVE  MILLIVOLTS     SCALING FACTORS    ENGINEERING VALUES   UNITS
           LOW   HIGH   ADD.     MULT.       LOW        HIGH
  ----  -------------- ----------------- -------------------- -----

      DATE 12/17/93        CALIBRATION          TIME 13:18:10

  CILD     -2.1   489.0   2.246    1.9848      0.500     500.000 MMHO
  CILM     -1.7   483.5   2.098    2.3240      0.500     500.000 MMHO
  CFOC      6.2   513.1  -5.118    2.4022      1.000     500.000 MMHO

      DATE 12/17/93    PRIMARY VERIFICATION     TIME 13:24:29

  CILD     -0.5   485.5   2.246    1.9848      1.877     495.525 MMHO
  CILM     -1.1   488.1   2.098    2.3240      1.068     505.130 MMHO
  CFOC      5.7   512.9  -5.118    2.4022      0.444     499.820 MMHO

      DATE 02/02/94   BEFORE LOG VERIFICATION    TIME 00:31:16

  CILD     -0.6   482.1   2.246    1.9848      1.822     491.789 MMHO
  CILM     -1.2   483.4   2.098    2.3240      0.978     499.936 MMHO
  CFOC      5.1   502.4  -5.118    2.4022     -0.092     489.490 MMHO

      DATE 02/02/94    AFTER LOG VERIFICATION    TIME 01:43:34

  CILD     -0.4   481.6   2.246    1.9848      1.918     491.255 MMHO
  CILM     -1.0   491.4   2.098    2.3240      1.151     508.707 MMHO
  CFOC      5.3   505.6  -5.118    2.4022      0.077     492.673 MMHO


      LOG NAME GR      ASSET NO. 46786    UNIT NO. HL 6401
    CALIBRATION ENTERED ON  02/01/94 AT 22:05:30

  CURVE  COUNTS/SEC.    SCALING FACTORS    ENGINEERING VALUES   UNITS
           LOW   HIGH   ADD.     MULT.       LOW        HIGH
  ----  -------------- ----------------- -------------------- -----

      DATE 01/11/94        CALIBRATION          TIME 09:58:36

  GR       81.2   276.4   0.000    0.7686      0.000     150.000 API

      DATE 01/11/94    PRIMARY VERIFICATION     TIME 10:02:46

  GR       80.2   276.9   0.000    0.7686     62.106     212.856 API

      DATE 02/01/94   BEFORE LOG VERIFICATION    TIME 22:08:34

  GR       66.4   257.0   0.000    0.7686     51.018     197.521 API

      DATE 02/02/94    AFTER LOG VERIFICATION    TIME 01:46:50

  GR       66.4   257.3   0.000    0.7686     50.999     197.752 API


      LOG NAME CAL     ASSET NO. 34194    UNIT NO. HL 6401
    CALIBRATION ENTERED ON  02/01/94 AT 22:03:55

  CURVE  MILLIVOLTS     SCALING FACTORS    ENGINEERING VALUES   UNITS
           LOW   HIGH   ADD.     MULT.       LOW        HIGH
  ----  -------------- ----------------- -------------------- -----

      DATE 01/11/94        CALIBRATION          TIME 09:54:46

  CAL    5783.9 12561.2   1.173    0.0086      8.000      16.000 INCH

      DATE 01/11/94    PRIMARY VERIFICATION     TIME 09:56:40

  CAL    5841.0 12553.1   1.173    0.0086      8.067      15.990 INCH

      DATE 02/02/94   BEFORE LOG VERIFICATION    TIME 00:28:28

  CAL    6181.7    E      0.773    0.0086      8.070       E     INCH

      DATE 02/02/94    AFTER LOG VERIFICATION    TIME 01:45:53

  CAL    6468.1    E      0.473    0.0086      8.108       E     INCH
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