Western Atlas International

ATLAS WIRELINE SERVICES

DUAL INDUCTION FOCUSED LOG
GAMMA RAY
3 ARM CALIPER

FILE NO.

API NO. 05123 16162

FINAL PRINT

COMPANY SNYDER OIL CORPORATION
WELL STATE 36-617
FIELD WATTENBERG
COUNTY WELD STATE COLORADO

LOCATION:
SE NW
SEC 36 TWP 4 N RGE 67 W

RECEIVED
MAY - 9 1994

OTHER SERVICES
CDL/GR

PERMANENT DATUM GROUND LEVEL ELEVATION 4768 FT.
LOG MEASURED FROM KELLY BUSHING 11 FT. ABOVE PERMANENT DATUM
DRILL. MEAS. FROM KELLY BUSHING

ELEVATIONS
KB 4779'
DF 4778'
GL 4768'

DATE	27 JANUARY 1994	
RUN	1	
SERVICE ORDER	132214	
DEPTH DRILLER	7460'	
DEPTH LOGGER	7468'	
BOTTOM LOGGED INTERVAL	7466'	
TOP LOGGED INTERVAL	469'	
CASING - DRILLER	8 5/8"	@469'
CASING LOGGER	469'	
BIT SIZE	7 7/8"	
TYPE FLUID IN HOLE	CHEM/GEL	
DENSITY / VISCOSITY	9.8	50
PH / FLUID LOSS	N/A	N/A
SOURCE OF SAMPLE	MUD TANK	
RM AT MEAS. TEMP.	4.83	@61 F
RMF AT MEAS. TEMP.	3.62	@61 F
RMC AT MEAS. TEMP.	6.04	@61 F
SOURCE OF RMF / RMC	MEASURED	CALCULATED
RM AT BHT	1.51	@195 F
TIME SINCE CIRCULATION	7 HOURS	
MAX. REC. TEMP. DEG. F	195 F	
EQUIP. NO. / LOCATION	HL 6379	FORT MORGAN
RECORDED BY	KAREN KELLY	
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

1. CALIPER VERIFIED IN SURFACE CASING.
2. VOLUME COMPUTED FOR 3.5" CASING.

CREW: WADE ELMORE & GILLIGAN DeSANTIS.
RIG: EXETER #23.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIAL NO.	SERIES NO.	POSITION
1	1	DIFL	46911	1503XA	1.5" S.O.
1	1	CAL	55719	4209XA	3-ARM
1	1	GR	60494	1309XA	FREE

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**************************************************************************

                         FILE:   4

        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
        ----------

             NAME       DEPTH INTERVAL     VALUE     UNITS
           --------     --------------   ----------  -----
           O.D.          7498 TO   406        3.500  INCH
           RW            7498 TO   406   **********  OHM-M


        DISPLAY SCALE CHANGES
        ---------------------

                      *** NONE ***

COMPANY:    SNYDER OIL CORPORATION                          RUN:  1

WELL NAME:  STATE 36-617                                    TRIP: 1

SERVICE:    KR212L        FILE:   4      DATE:  01/27/94    TIME: 03:03:38

REVISION:   FSYS256 REV:G002 VER:2.0                        MODE: RECORD
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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: 4

****

****

****

FILE: 4

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.	7498 TO 406	3.500	INCH
RW	7498 TO 406	**********	OHM-M

DISPLAY SCALE CHANGES

*** NONE ***

COMPANY: SNYDER OIL CORPORATION
RUN: 1
WELL NAME: STATE 36-617
TRIP: 1
SERVICE: KR212L FILE: 4 DATE: 01/27/94
TIME: 03:03:38
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

04500
04600
04700
04800
04900
05000
05100
05200
05300
05400
05500
05600
05700
05800
05900
06000
06100
06200
06300
06400
06500
06600
06700
06800

FILE: 4

REPEAT SECTION

FILE: 3

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

          NAME       DEPTH INTERVAL     VALUE      UNITS
        --------     --------------   ----------   -----
        O.D.          7494 TO  7132        3.500   INCH
        RW            7494 TO  7132   **********   OHM-M


DISPLAY SCALE CHANGES
---------------------

                   *** NONE ***


COMPANY:    SNYDER OIL CORPORATION                      RUN:  1

WELL NAME:  STATE 36-6I7                                TRIP: 1

SERVICE:    KR212L        FILE:   3     DATE:  01/27/94 TIME: 02:55:08

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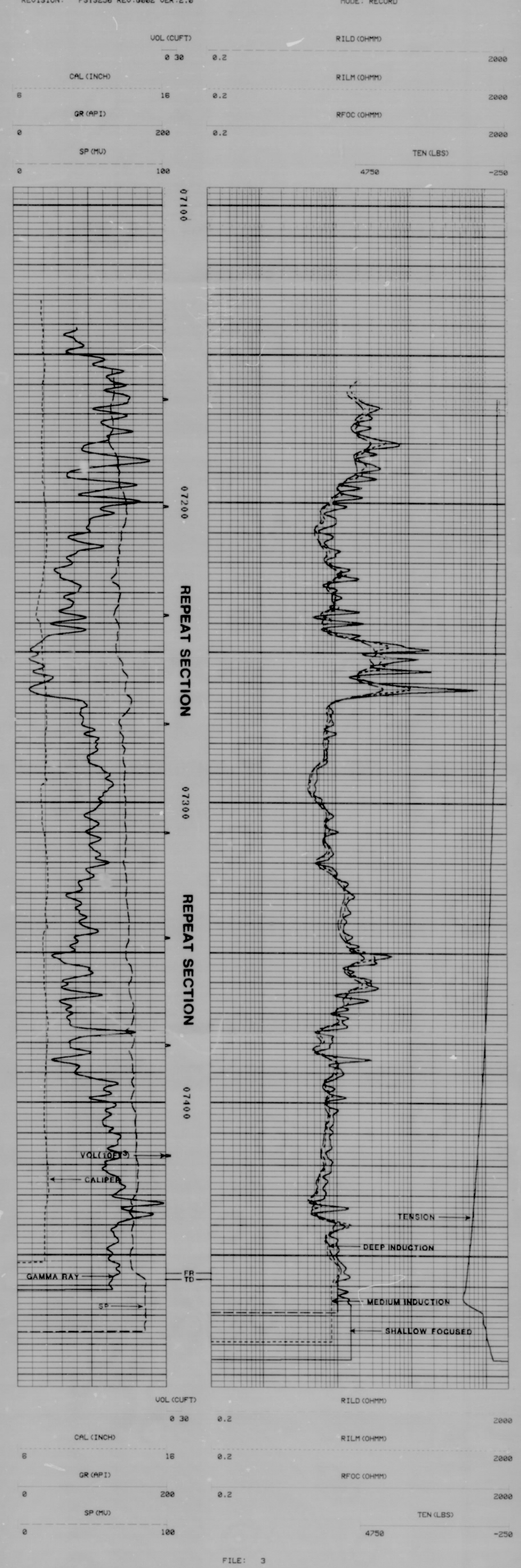

FILE: 3

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****************************************
*                                      *
*  CALIBRATION/VERIFICATION SUMMARIES  *
*  DATE 01/27/94        TIME 04:02:24  *
*  RUN  1               TRIP 1         *
*                                      *
****************************************


     LOG NAME DIFL    ASSET NO. 46911    UNIT NO. HL 6379
   CALIBRATION ENTERED ON  01/27/94 AT 03:52:24

CURVE  MILLIVOLTS     SCALING FACTORS   ENGINEERING VALUES  UNITS
        LOW    HIGH   ADD.     MULT.       LOW       HIGH
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     DATE 01/20/94        CALIBRATION          TIME 10:37:18

CILD     -1.5   500.9   1.710    1.9403      0.500    500.000 MMHO
CILM     -1.9   507.1   2.231    2.2152      0.500    500.000 MMHO
CFOC      2.3   514.2  -1.204    2.3785      1.000    500.000 MMHO

     DATE 01/20/94    PRIMARY VERIFICATION     TIME 10:39:36

CILD     -0.6   503.2   1.710    1.9403      1.266    502.020 MMHO
CILM     -0.8   501.5   2.231    2.2152      1.560    494.381 MMHO
CFOC      5.3   495.3  -1.204    2.3785      3.973    481.626 MMHO

     DATE 01/27/94   BEFORE LOG VERIFICATION   TIME 02:08:25

CILD     -0.4   503.3   1.710    1.9403      1.445    502.166 MMHO
CILM     -0.6   501.4   2.231    2.2152      1.736    494.258 MMHO
CFOC      5.0   490.8  -1.204    2.3785      3.717    477.226 MMHO

     DATE 01/27/94    AFTER LOG VERIFICATION   TIME 03:52:59

CILD     -0.4   500.3   1.710    1.9403      1.432    498.742 MMHO
CILM     -0.4   499.5   2.231    2.2152      1.868    492.365 MMHO
CFOC      5.0   499.5  -1.204    2.3785      3.687    485.729 MMHO


     LOG NAME GR      ASSET NO. 60494    UNIT NO. HL 6379
   CALIBRATION ENTERED ON  01/26/94 AT 23:22:06

CURVE  COUNTS/SEC.    SCALING FACTORS   ENGINEERING VALUES  UNITS
        LOW    HIGH   ADD.     MULT.       LOW       HIGH
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     DATE 01/11/94        CALIBRATION          TIME 02:22:27

GR       57.9   240.6   0.000    0.8211      0.000    150.000 API

     DATE 01/11/94    PRIMARY VERIFICATION     TIME 02:25:25

GR       57.2   247.5   0.000    0.8211     46.948    203.230 API

     DATE 01/25/94   BEFORE LOG VERIFICATION   TIME 23:20:06

GR       61.4   249.2   0.000    0.8211     50.417    204.667 API

     DATE 01/27/94    AFTER LOG VERIFICATION   TIME 03:58:29

GR       54.5   247.6   0.000    0.8191     44.619    202.783 API


     LOG NAME CAL     ASSET NO. 55719    UNIT NO. HL 6379
   CALIBRATION ENTERED ON  01/26/94 AT 23:22:30

CURVE  MILLIVOLTS     SCALING FACTORS   ENGINEERING VALUES  UNITS
        LOW    HIGH   ADD.     MULT.       LOW       HIGH
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     DATE 01/20/94        CALIBRATION          TIME 16:26:55

CAL    5659.3 12278.4   1.160    0.0089      8.000     16.000 INCH

     DATE 01/20/94    PRIMARY VERIFICATION     TIME 16:29:45

CAL    5655.7    E      1.160    0.0089      7.996      E     INCH

     DATE 01/27/94   BEFORE LOG VERIFICATION   TIME 02:05:14

CAL    6013.2    E      0.760    0.0089      8.028      E     INCH

     DATE 01/27/94    AFTER LOG VERIFICATION   TIME 03:56:19

CAL    6005.9    E      0.760    0.0089      8.019      E     INCH
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