Schlumberger

DUAL INDUCTION - SFL

COUNTY	COLUMBIA
FIELD	MIST
LOCATION	2367'N AND 1009'W
WELL	"CONDOR" L.F. #43-32-65
COMPANY	NAHAMA & WEAGANT ENERGY CO.

COMPANY NAHAMA & WEAGANT ENERGY CO.

WELL "CONDOR" L.F. #43-32-65

FIELD MIST

COUNTY COLUMBIA **STATE** OREGON

LOCATION 2367'N AND 1009'W
FROM SE CORNER

Other Services:

API SERIAL NO.	SECT.	TWP.	RANGE
36-009-00302	32	6N	5W

Permanent Datum	GL	Elev.	791.0 F		Elev.: K.B. 801.0 F
Log Measured From	KB	10.0 F	above Perm. Datum		D.F.
Drilling Measured From	KB				G.L. 791.0 F

Date	29-AUG-1993				
Run No.	ONE				
Depth Driller	1909.0 F				
Depth Logger (Schl.)	1908.0 F				
Btm. Log Interval	1901.0 F				
Top Log Interval	502.0 F				
Casing-Driller	10 3/4" @ 502.0 F	@		@	
Casing-Logger	502.0 F				
Bit Size	9 7/8" @ 1909.0 F	@		@	
Type Fluid in Hole	ACRYLAFLOW				
Dens. / **Visc.**	9.20 LB/G	42.0 S			
pH / **Fld. Loss**	9.0	6.0 C3			
Source of Sample	FLOWLINE				
Rm @ Meas. Temp.	2.970 OHMM @ 80.0 DEGF		@		
Rmf @ Meas. Temp.	3.890 OHMM @ 68.0 DEGF		@		
Rmc @ Meas. Temp.	2.550 OHMM @ 68.0 DEGF		@		
Source: Rmf / **Rmc**	MEASURED	MEASURED			
Rm @ BHT	2.903 OHMM @ 82.0 DEGF		@		
TIME **Circulation Ended**	12:00 29-AUG-1993				
TIME **Logger on Bottom**	15:11 29-AUG-1993				
Max. Rec. Temp.	82.0 DEGF				
Equip. / **Location**	8504	SACRAMENTO			
Recorded By	SCOTT PILCH				
Witnessed By	JOE NAHAMA / ROB LUCAS				

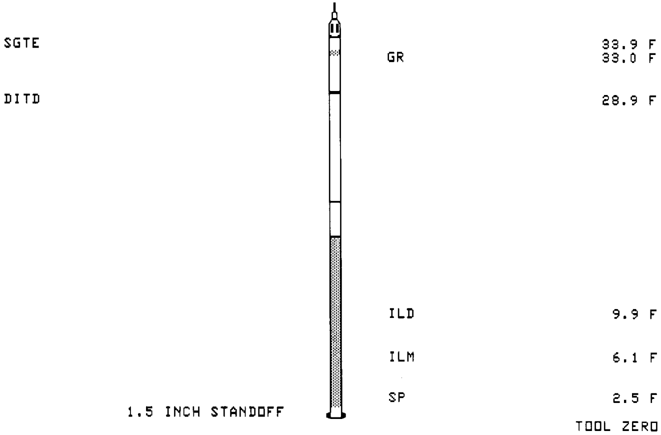
The well name, location and borehole reference data were furnished by the customer.

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 interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

Run No.	ONE			
Service Order No.	624460			
Drilling Fluid Level	5.0 F			
Salinity	600.0 PPM			
Rmf @ BHT	3.278 OHMM	@	82.0 DEGF	@
Rmo @ BHT	2.149 OHMM	@	82.0 DEGF	@
Logging Speed	3600.0 F/HR			
EQUIPMENT DATA				
Tool Number 1	DIS-EC 1422			
Tool Number 2	DIC-DA 1149			
Tool Number 3	SGC-JC 3206			
Tool Number 4	IEM-BD 1349			
Tool Number 5	NLM-BC 418			
Tool Number 6				
Tool Number 7				
Tool Number 8				
Tool Number 9				
Tool Number 10				
Tool Number 11				
Tool Number 12				

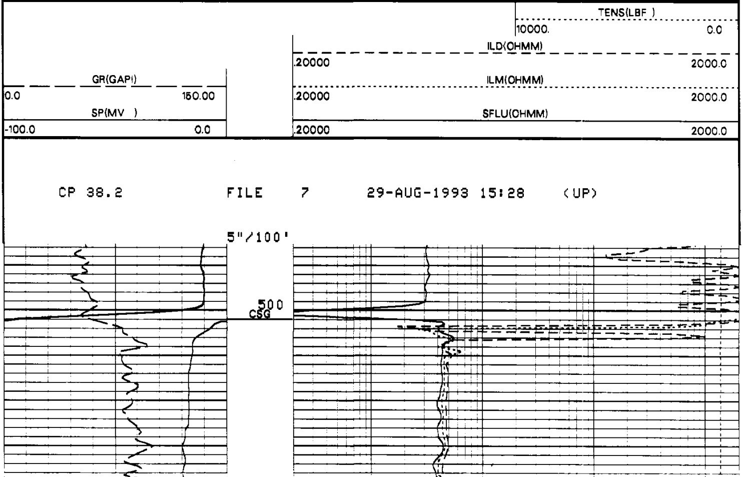
REMARKS:

LOGGING TOOL STRING SKETCH

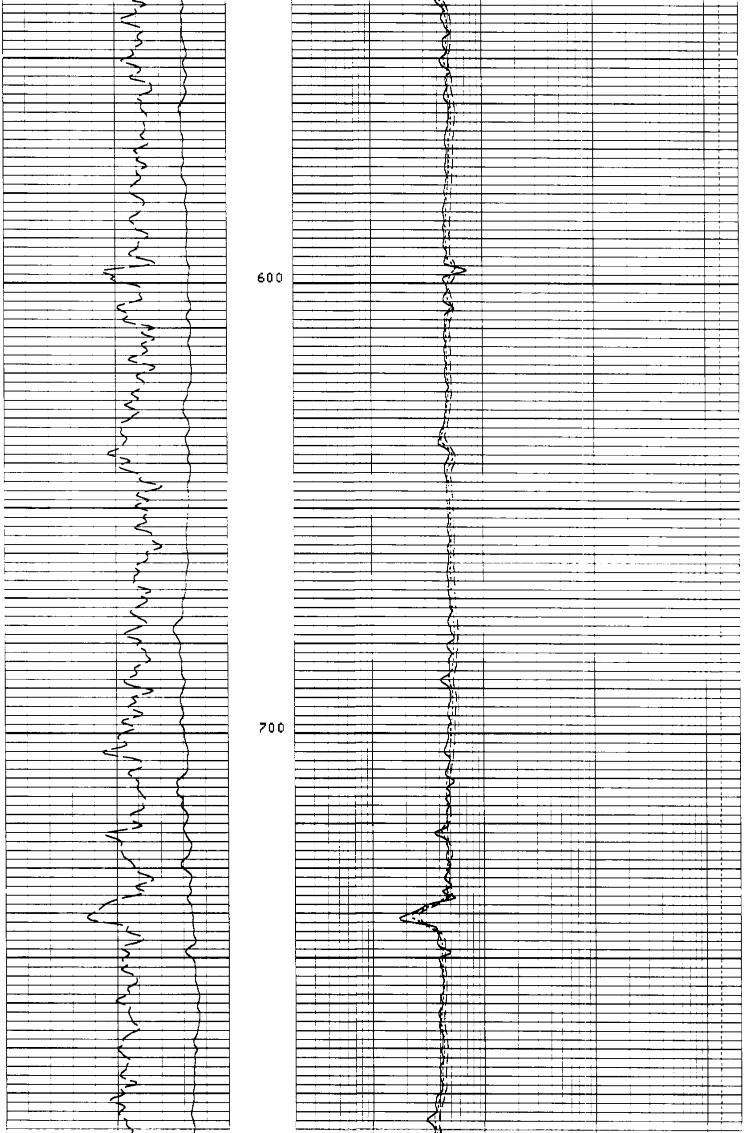


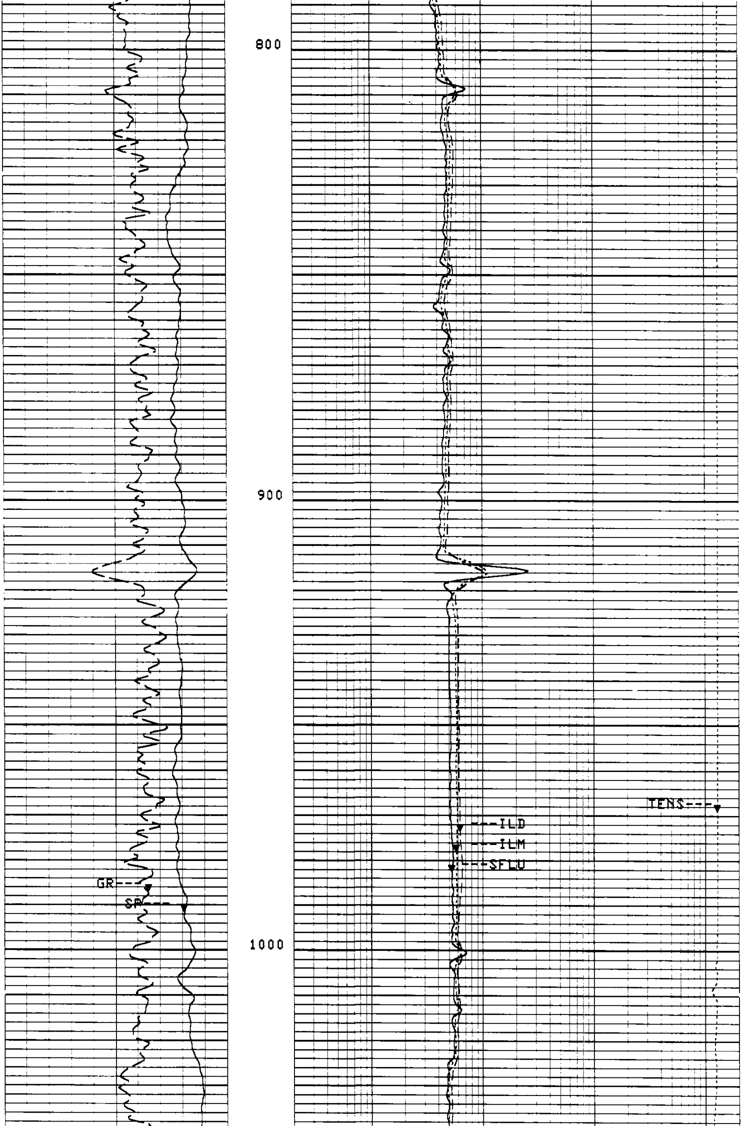
TOTAL TOOL STRING LENGTH IS 36.9 F.
TOTAL TOOL STRING WEIGHT IS 493. LB IN AIR.

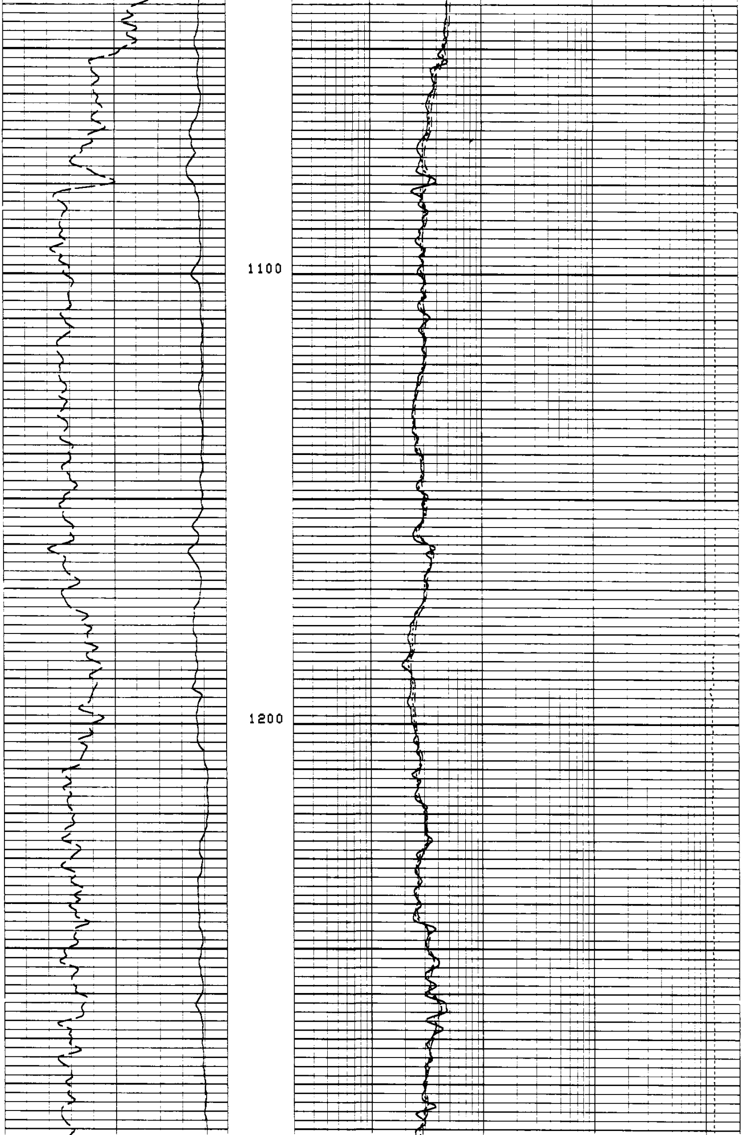
MAIN LOG

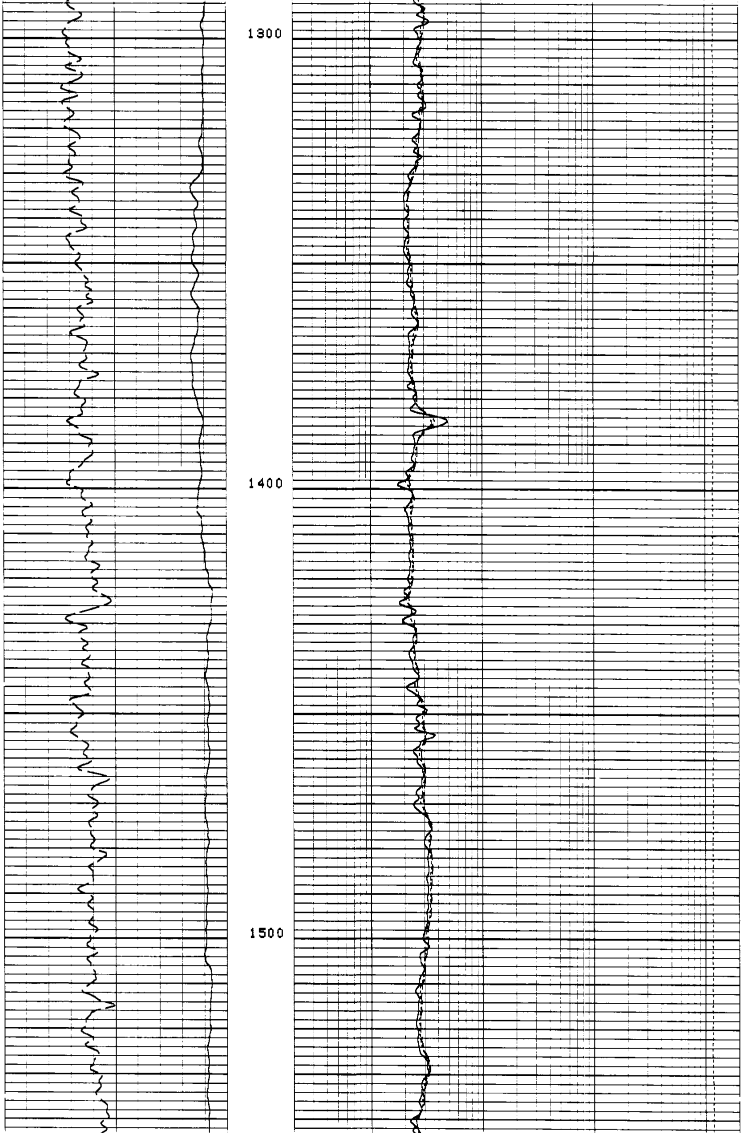


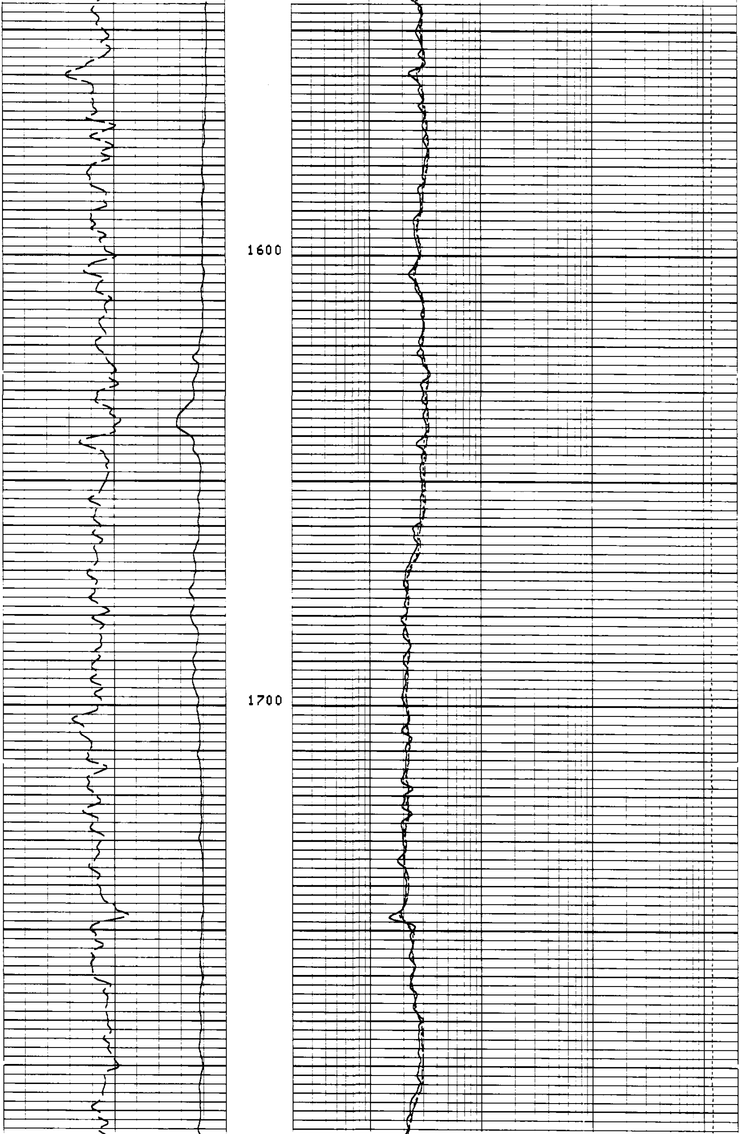
CP 38.2 FILE 7 29-AUG-1993 15:28 (UP)

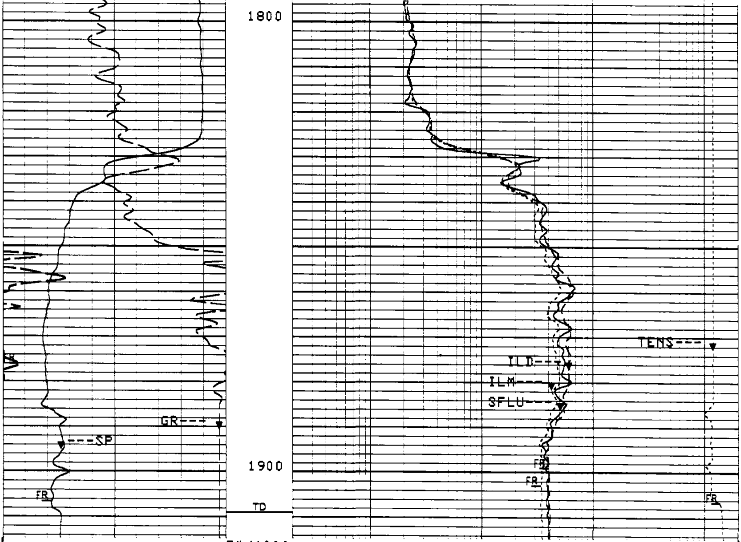












5"/100'

CP 38.2 FILE 7 29-AUG-1993 15:11 (UP)

TENS(LBF)
10000. 0.C

ILD(OHMM)
.20000 2000.0

ILM(OHMM)
.20000 2000.0

SFLU(OHMM)
.20000 2000.0

GR(GAPI)
0.0 150.00

SP(MV)
-100.0 0.0

SENSOR MEASURE POINT TO TOOL ZERO

DITD 9.9 FEET
DTT 2.5 FEET

SGTE 33.0 FEET

PARAMETERS

PARAMETER	VALUE	UNIT
WMUD - Weight of Mud	9.20000	LB/G
MSEC - Medium Sonde Error Correction	6.70000	MM/M
SBR - Shoulder Bed Resistivity	1.00000	OHMM
DSEC - Deep Sonde Error Correction	4.20000	MM/M
NCJT - NGT Calibration Jig Type	GSRY	
BS - Bit Size	9.87500	IN
BHS - BoreHole Status (Open or Cased)	OPEN	

REPEAT SECTION

TENS(LBF) 10000. 0.0

ILD(OHMM) .20000 2000.0

ILM(OHMM) .20000 2000.0

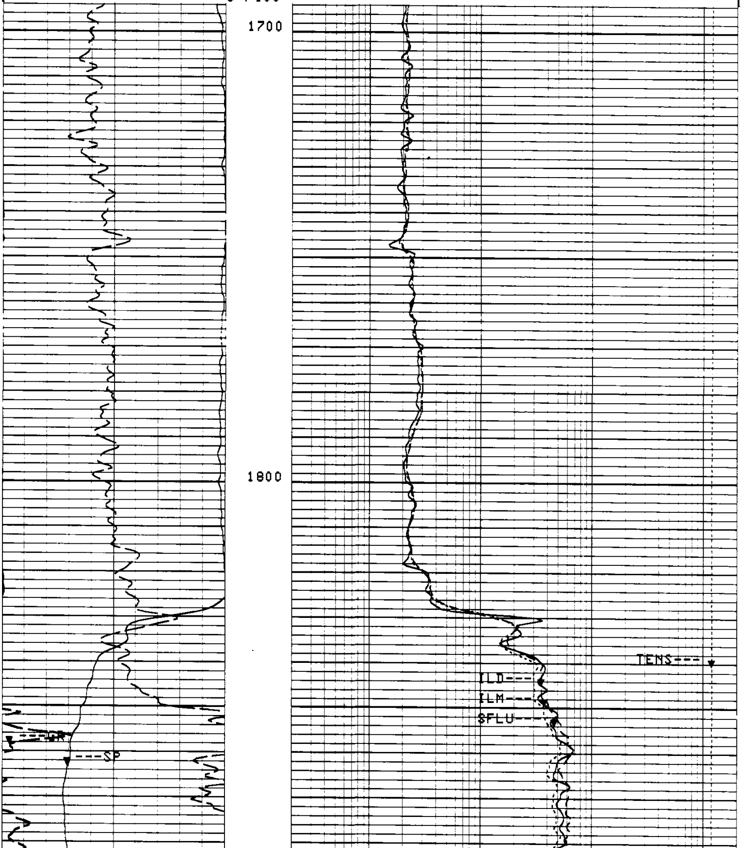
SFLU(OHMM) .20000 2000.0

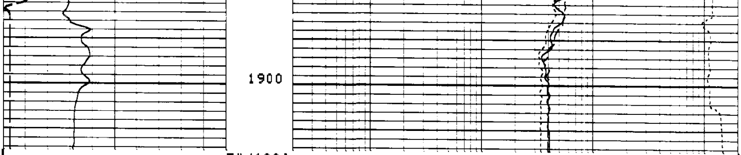
GR(GAPI) 0.0 150.00

SP(MV) -100.0 0.0

CP 38.2 FILE 6 29-AUG-1993 15:10 (UP)

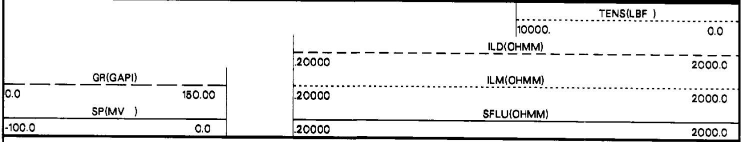
5"/100'





5"/100'

CP 38.2 FILE 6 29-AUG-1993 15:06 (UP)



SENSOR MEASURE POINT TO TOOL ZERO

DITD 9.9 FEET
DTT 2.5 FEET

SGTE 33.0 FEET

PARAMETERS

PARAMETER	VALUE	UNIT
WMUD - Weight of Mud	9.20000	LB/G
MSEC - Medium Sonde Error Correction	6.70000	MM/M
SBR - Shoulder Bed Resistivity	1.00000	OHMM
DSEC - Deep Sonde Error Correction	4.20000	MM/M
NCJT - NGT Calibration Jig Type	GSRY	
BS - Bit Size	9.87500	IN
BHS - BoreHole Status (Open or Cased)	OPEN	

CALIBRATION SUMMARY

AFTER SURVEY TOOL CHECK SUMMARY

PERFORMED: 29-AUG-1993 15:30
PROGRAM FILE: ISN (VERSION 38.2 92/10/12 92/10/12)

DITD TOOL CHECK

	ZERO		PLUS		
	BEFORE	AFTER	BEFORE	AFTER	UNITS
ILD	0.0	-.0	502.7	502.4	MM/M
ILM	0.0	-.1	498.9	498.6	MM/M
SFL	0.0	-.0	500.0	500.0	MM/M

ILD SONDE ERROR CORRECTION : 4.2 MM/M
ILM SONDE ERROR CORRECTION : 6.7 MM/M

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BEFORE SURVEY:           ZERO: 29-AUG-1993 15:02  PLUS: 29-AUG-1993 15:02
AFTER SURVEY CHECK:      ZERO: 29-AUG-1993 15:29  PLUS: 29-AUG-1993 15:30

   CP 38.2         FILE    9      29-AUG-1993 15:30


               BEFORE SURVEY CALIBRATION SUMMARY


  PERFORMED:    29-AUG-1993 15:03
  PROGRAM FILE: ISN    (VERSION    38.2    92/10/12  92/10/12)


DITD            ELECTRONICS CALIBRATION SUMMARY

            MEASURED                    CALIBRATED
          ZERO    PLUS               ZERO      PLUS         UNITS
   ILD     .15    510.5              0.0       502.7         MM/M
   ILM     .34    526.4              0.0       498.9         MM/M
   SFL     .19    522.9              0.0       500.0         MM/M

ILD SONDE ERROR CORRECTION :        4.2 MM/M
ILM SONDE ERROR CORRECTION :        6.7 MM/M

ZERO: 29-AUG-1993 15:02  PLUS: 29-AUG-1993 15:02  COMP: 29-AUG-1993 15:02


SGTE            DETECTOR CALIBRATION SUMMARY

            MEASURED
          BKGD    JIG         CALIBRATED         UNITS
    GR     55     218            165             GAPI

BACK: 29-AUG-1993 14:40  JIG: 29-AUG-1993 14:41  COMP: 29-AUG-1993 14:41

   CP 38.2         FILE    5      29-AUG-1993 15:03


                SHOP SUMMARY


  PERFORMED:    12-AUG-1993 10:18
  PROGRAM FILE: SHOP   (VERSION    38.2    92/10/12  92/10/12)


DITD            ELECTRONICS CALIBRATION SUMMARY

               TEST LOOP CALIBRATION           TOOL CHECK
            MEASURED         CALIBRATED        CALIBRATED
         ZERO    PLUS      ZERO     PLUS     ZERO     PLUS    UNITS
   ILD   -3.3    502.0     0.0      500.0    0.0      502.7   MM/M
   ILM   -7.0    518.6     0.0      500.0    0.0      498.9   MM/M
ILD  SONDE ERROR CORRECTION :       4.2 MM/M
ILM  SONDE ERROR CORRECTION :       6.7 MM/M

                    (IS:1422, IC:1149)

   CP 38.2         FILE    9      12-AUG-1993 10:18
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COMPANY	NAHAMA & WEAGANT ENERGY CO.			**SCHL.**	**FR**	**1901.0 F**
				SCHL.	**TD**	**1908.0 F**
WELL	"CONDOR" L.F. #43-32-65			**DRLR.**	**TD**	**1909.0 F**
FIELD	MIST			**Elev:**	**KB**	**801.0 F**
					DF	
COUNTY	COLUMBIA	**STATE**	OREGON		**GL**	**791.0 F**

Schlumberger

DUAL INDUCTION - SFL