

COMPANY **NAHAMA AND WEAGANT ENERGY CO.**
 WELL **"JR BURGER JOHNSTON" #24-19-65**
 FIELD **MIST**
 COUNTY **COLUMBIA** STATE **OREGON**

LOG LOCATION **1879' N & 1370' E**
 LOCATION **FROM SW CORNER OF SECTION 19 T1P 19S R1E**
 COUNTY **COLUMBIA** STATE **OREGON**
 DATE **14 AUG 1993**
 LOG MEASURED FROM **KB** ELEV. **638.3 F**
 DRILLING MEASURED FROM **KB** ELEV. **637.3 F**
 PERMANENT DATUM **KB** ELEV. **638.3 F**
 LOG MEASURED FROM **KB** ELEV. **637.3 F**
 DRILLING MEASURED FROM **KB** ELEV. **638.3 F**
 DATE **14 AUG 1993**
 RUN No. **ONE**
 Depth Driller **30444.0 F**
 Depth Logger (SON) **30293.0 F**
 Btm. Log Interval **30231.0 F**
 Top Log Interval **502.0 F**
 Casing-Driller **8.5/8" @ 502.0 F**
 Casing-Logger **5.0/2.0" @ 3044.0 F**
 1 1/2" Size Found In Hole **7.7/8" @ 3044.0 F**
 Type of Tool Joint **CE/TO/TAH**
 Visc. **930 LB/G**
 pH **4.00 S**
 Fld. Loss **56.03**
 FLOWLINE
 Rim @ Meas. Temp. **2650 OHMM @ 68.0 DEG F**
 Rim @ Meas. Temp. **3400 OHMM @ 61.0 DEG F**
 Rim @ Meas. Temp. **2450 OHMM @ 61.0 DEG F**
 Source Firm (Fimo) **MCSAS/IED @ MFA/SMBED**
 Source Firm (Fimo) **MCSAS/IED @ MFA/SMBED**
 Run @ BHT **2000 OHMM @ 97.0 DEG F**
 Logger on Bottom **00030 14 AUG 93**
 Logger on Bottom **355 14 AUG 93**
 Max. Frc. Temp. **97.0 DEG F**
 Equip. Location **8271 SACHAMENTO**
 Filtrated By **HLKCS/HS/IN01011**

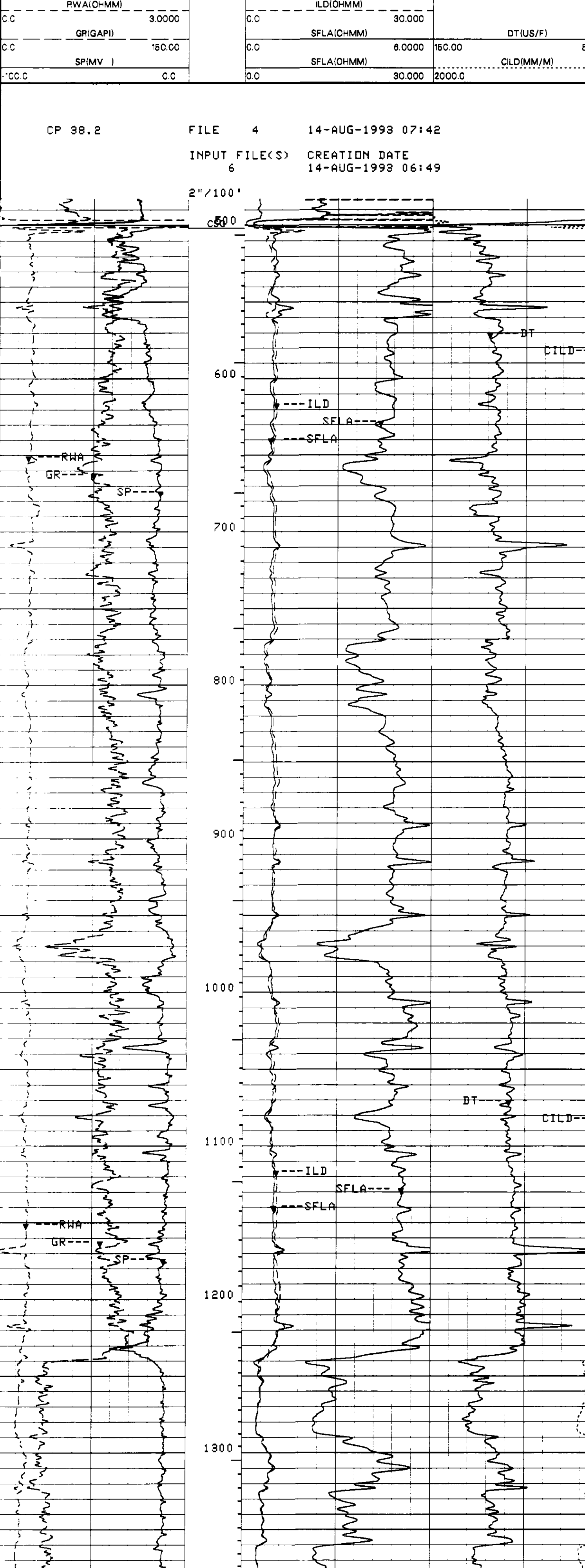
The well name, location and borehole reference data were furnished by the customer.
 All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case 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 offices, 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.	82437
Drilling Fluid Level	5.0 F
Salinity	2600 PPM
Rmt @ BHT	3386 OHMM @ 82.0 DEG F
Rmo @ BHT	777 OHMM @ 82.0 DEG F
Logging Speed	36000 F/H

EQUIPMENT DATA	
Tool Number 1	DIS-EC 1422
Tool Number 2	DIC-DA 149
Tool Number 3	SLS-WA
Tool Number 4	SLS-MA
Tool Number 5	MCD-DB
Tool Number 6	SGC-JC
Tool Number 7	IEM-BD 1817
Tool Number 8	SLM-DA 443
Tool Number 9	NLM-BD 1128
Tool Number 10	
Tool Number 11	
Tool Number 12	

REMARKS:
 TWO 1.5" STANDOFFS RUN ON INDUCTION TOOL
 TWO CMEZ CENTRALIZERS RUN ON SONIC TOOL
 1.5" STANDOFF RUN ON SONIC TOOL
 DISCREPANCY BETWEEN DRILLER'S TD AND LOGGER'S TD DUE TO FILL

LOGGING TOOL STRING SKETCH



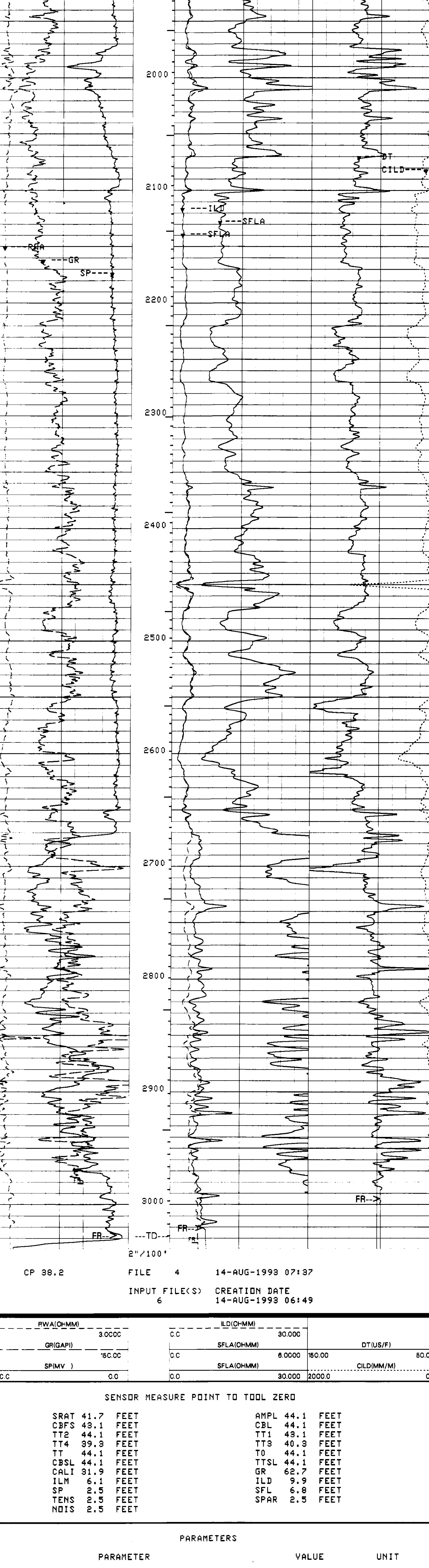
MAIN LOG

ACCUMULATED INTEGRATION VALUES SUMMARY:			
Integrated Hole Volume:	916.895 F3	FROM 3038.50 F	TO 502.000 F
Integrated Cement Volume:	636.748 F3	FROM 3038.50 F	TO 502.000 F
(ASSUMING 4.50000 IN O.D. CASING)			
Integrated Transit Time:	.290651 S	FROM 3038.50 F	TO 502.000 F

EVENT MARK SUMMARY:			
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK	EDGE
Integrated Transit Time	.00100000 S		RIGHT EDGE

PWA(OHMM)	30000	ILD(OHMM)	30000	DT(US/F)	50.000
GR(GAPI)	50.00	SFLA(OHMM)	60000	CILD(MM/M)	0.0
SP(MV)	0.0	SFL(OHMM)	30000		

CP 38.2 FILE 4 14-AUG-1993 07:42
 INPUT FILE(S) 6 CREATION DATE 14-AUG-1993 06:49



PWA(OHMM)	30000	ILD(OHMM)	30000	DT(US/F)	50.000
GR(GAPI)	50.00	SFLA(OHMM)	60000	CILD(MM/M)	0.0
SP(MV)	0.0	SFL(OHMM)	30000		

SENSOR MEASURE POINT TO TOOL ZERO			
SRAT 43.7 FEET	AMPL 44.1 FEET	CBL 44.1 FEET	DISA 21N DISA
CBFS 49.1 FEET	TT1 43.1 FEET	TT3 40.3 FEET	TT4 44.1 FEET
TT4 39.3 FEET	TO 44.1 FEET	TTSL 44.1 FEET	GR 62.7 FEET
TT 44.1 FEET	ILD 9.9 FEET	SFL 6.8 FEET	SPAR 2.5 FEET
CALI 31.9 FEET			
ILM 6.1 FEET			
SP 2.5 FEET			
TENS 2.5 FEET			
NDIS 2.5 FEET			

PARAMETER	VALUE	UNIT
SPDR - Spontaneous Potential Drift	.010000	
SMB - Sonic Memory Board	DISA	
VDLR - Defn not found	21N	
TDCA - TD Correction Status	DISA	
RATE - Firing Rate	15	HZ
DG - Downhole Gain	AUTO	
DETE - Detection	E2	
HWG - Near Minimum Sliding Gate	150	US
MSG - Near Sonic Error Correction	35	US
SRB - Shoulder Bed Resistivity	2	
AMPL - Sonic Amplitude	UT	
CBL - Cement Bond Log Amplitude	1	
WFM - Waveform Mode	FAST	
SS - Sweep Speed	DISA	
TOD - TD Delay	189.000	US/F
DTF - Delta-T Fluid	56.0000	US/F
DTM - Delta-T Matrix		
CDTS - Correction for Delta-T Shale, Empirical	100.000	
SPFS - Sonic Porosity Formula Select	R-H	
PP - Playback Processing	NORM	
DD - Depth Offset for Logical Unit LII	0.0	F
HMWD - Height of Mud	2.50000	LB/G
MSG - Near Sonic Error Correction	6.70000	MM/M
CBG - CBL Gate Width	1.00000	OHMM
SBR - Shoulder Bed Resistivity	4.20000	MM/M
DSEC - Deep Sonde Error Correction	4.50000	IN
FCD - Future Casing Diameter	4.50000	IN
NCJT - NGT Calibration Jig Type	GSRV	
FPHI - Formation Factor Formula Porosity	SPHI	
DWCO - Digitizer Word Count	512	
DSIN - Digitizer Sample Interval	5	US
DDLE - Digitizing Delay	200	US
BS - Bit Size	7.87500	IN
BHS - Borehole Status (Open or Cased)	OPEN	

COMPANY **NAHAMA AND WEAGANT ENERGY CO.** SCHL. FR 3023.0 F
 WELL **"JR BURGER JOHNSTON" #24-19-65** SCHL. TD 3028.0 F
 FIELD **MIST** DRLR. TD 3044.0 F
 COUNTY **COLUMBIA** STATE **OREGON** Elev. **KB 638.3 F**
DF 637.3 F
QL 628.3 F