

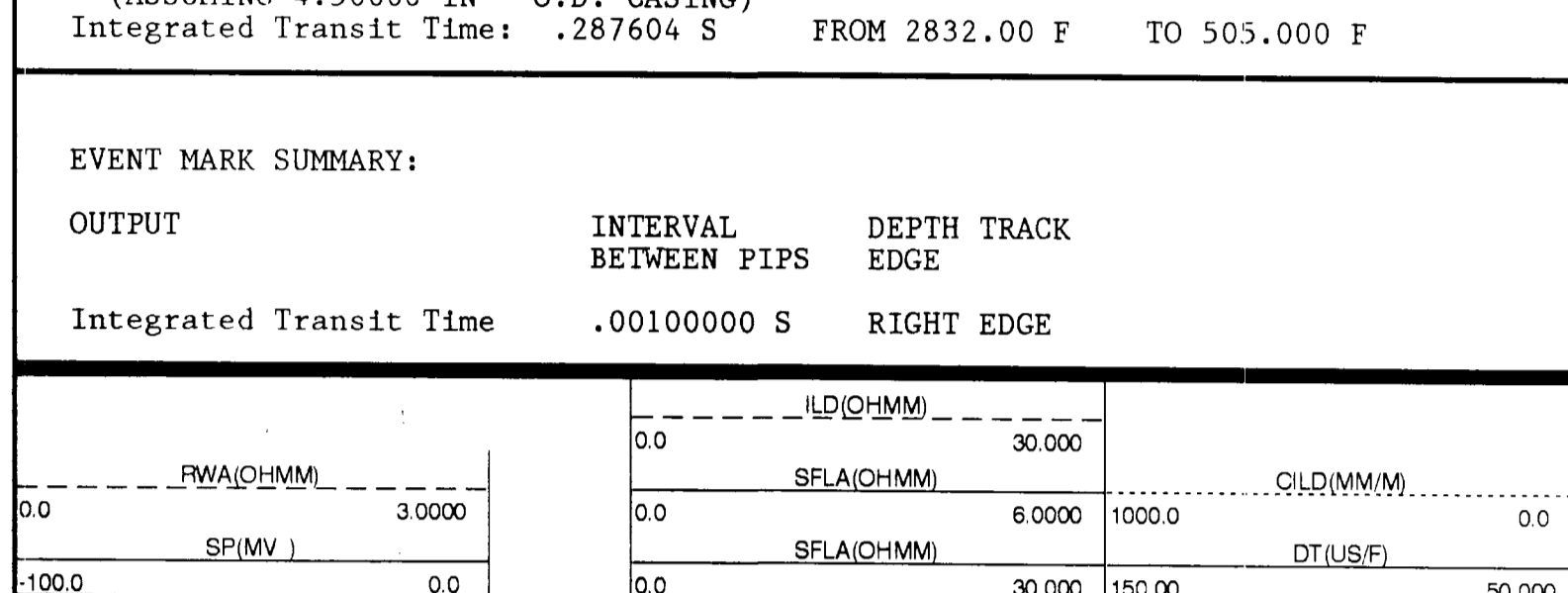
COUNTRY	Columbia	COMPANY	Nahama & Weagant Energy Company
STATE	Oregon	WELL	'Kokene' Libel #32-15-65
COUNTY	Columbia	FIELD	Mist
LOCATION	182E and 112N	LOG MEASURED FROM	11.0' above Perm. Datum
PERMIT NO.	182E and 112N	DATE	19-NOV-1993
APPROVAL NO.	SP-28320318	LOG MEASURED FROM	ONE
WELL	SP-28320318	DRILLING LOGGERS (LOCAL)	2832 OF
SECTION	15	TOOL LOG INTERVAL	50.0'
TWP.	5N	CHANGING CALIPER	6.9' @ 2832.0' - 6926.0' @ 2832.0' - 717' @ 8282.0' -
RANGE	36	DATE	19-NOV-1993
FILE	15	TYPE FLUID IN HOLE	77H @ 8282.0' -
SVI	15	DEPTH	8282.0'
DT	15	LOG MEASURED FROM	ONE
DT	15	LOG MEASURED FROM	ONE
DT	15	LOG MEASURED FROM	ONE
DT	15	LOG MEASURED FROM	ONE

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

A. Interpretations are opinions based on references from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretations and we shall not be liable for any losses, 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.	CNE
Service Order No.	624472
Drilling Fluid Level	5.0 F
Salinity	720.0 PPM
Rmt @ BHT	1.654 OHMM @ 95.0 DEGF
Rmc @ BHT	1.412 OHMM @ 95.0 DEGF
Logging Speed	3600.0 F/H

EQUIPMENT DATA	
Tool Number 1	DSE-EC 1386
Tool Number 2	DGO-DA 1342
Tool Number 3	MCO-DA 1237
Tool Number 4	SLS-WC 389
Tool Number 5	SLS-MA 114
Tool Number 6	SGC-JC 3204
Tool Number 7	EM-BO 304
Tool Number 8	SLM-DA 428
Tool Number 9	NLM-BC 207
Tool Number 10	
Tool Number 11	
Tool Number 12	



TOTAL TOOL STRING LENGTH IS 68.6 F.
 TOTAL TOOL STRING WEIGHT IS 993. LB IN AIR.

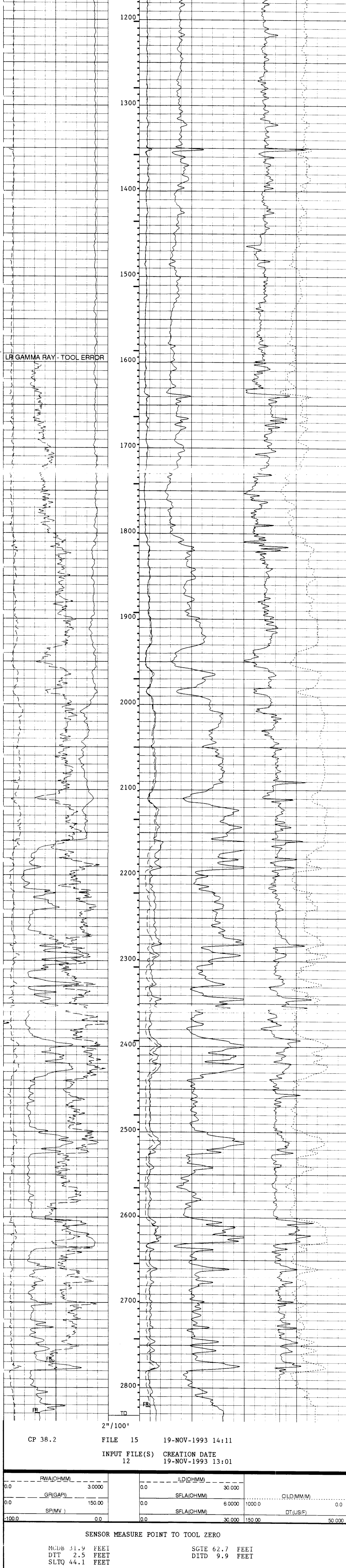
Main Log - 2/100

ACCUMULATED INTEGRATION VALUES SUMMARY:			
Integrated Hole Volume:	714.024 F3	FROM 2832.00 F	TO 505.000 F
Integrated Cement Volume:	457.017 F3	FROM 2832.00 F	TO 505.000 F
(ASSUMING 4.50000 IN O.D. CASING)	0.0		
Integrated Transit Time:	.287604 S	FROM 2832.00 F	TO 505.000 F

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

0.0	FWA(OHMM)	3.0000	0.0	ILD(OHMM)	30.000	0.0	CLD(OHMM)	0.0
100.0	SP(MV)	0.0	0.0	SFLA(OHMM)	6.0000	1000.0	DT(US/F)	80.000
				SFLA(OHMM)	30.000	150.00		

CP 38.2 FILE 15 19-NOV-1993 14:21
 INPUT FILE(S) CREATION DATE 19-NOV-1993 13:01
 12



CP 38.2	FILE 15	19-NOV-1993 14:11
INPUT FILE(S)	12	CREATION DATE
	19-NOV-1993 13:01	

0.0	FWA(OHMM)	3.0000	0.0	ILD(OHMM)	30.000	0.0	CLD(OHMM)	0.0
100.0	SP(MV)	0.0	0.0	SFLA(OHMM)	6.0000	1000.0	DT(US/F)	80.000
				SFLA(OHMM)	30.000	150.00		

SENSOR MEASURE POINT TO TOOL ZERO

RADB 31.9 FEET	SGTE 62.7 FEET
DT 2.5 FEET	DITD 9.9 FEET
SLIQ 44.1 FEET	

PARAMETERS		VALUE	UNIT
SMB	- Sonic Memory Board	DISA	
VLDR	- Defn not found	2IN	
TOCA	- TO Correction Status	DISA	
RATE	- Firing Rate	15	HZ
DG	- Downhole Gain	1/5	
DETE	- Detection	E2	
NMSC	- Near Minimum Sliding Gate	180	US
CBLG	- CBL Gate Width	35	US
AMPL	- Sonic Amplitude	2	
CBL	- Cement Bond Log Amplitude	FAST	
WFM	- Waveform Mode	1	
SS	- Sweep Speed	189.0000	US/F
TOD	- TO Delay	56.0000	US/F
DTF	- Delta-T Fluid	189.0000	US/F
DTM	- Delta-T Matrix	56.0000	US/F
CDS	- Correction for Delta-T Shale, Empirical	100.0000	
SPFS	- Sonic Porosity Formula Select	R-H	
PP	- Depth Processing	NORM	
DO	- Depth Offset for Logical Unit L11	0.0	F
WRUD	- Weight of Mud	9.800000	LB/G
MSEC	- Medium Sonde Error Correction	7.600000	MM/M
SBR	- Shoulder Bed Resistivity	1.000000	OHMM
DSEC	- Deep Sonde Error Correction	6.200000	MM/M
FCD	- Future Casing Diameter	4.500000	IN
NCTI	- NCT Calibration Jig Type	GSRY	
FPHI	- Formation Factor Formula Porosity	SPHI	
DWCO	- Digitizer Word Count	512	
DSIN	- Digitizer Sample Interval	5	US
DDEL	- Digitizing Delay	200	US
BS	- Bit Size	7.875000	IN
BHS	- Borehole Status (Open or Cased)	OPEN	

COMPANY	Nahama & Weagant Energy Company	SCHL. FR	2826.0 F
WELL	'Kokene' Libel #32-15-65	SCHL. TD	2832.0 F
FIELD	Mist	Elev:	KB 536.0 F
COUNTY	Columbia	STATE	Oregon
		DF	535.0 F
		QL	525.0 F