Schlumberger

LITHO DENSITY COMPENSATED NEUTRON COMBINATION LOG

COMPANY	CARBON ENERGY INT.
WELL	'WNS MENASHA' #32-1
FIELD	WILDCAT
COUNTY	COOS
STATE	OREGON
LOCATION	2191 FSL & 2099 FWL OF
	SEC 28 T 30 S R 13W W.M.
	OTHER SERVICES
	DIGL DSN SDL
Permanent Datum	GL
Log Measured From	KB 18.0 FT ABOVE PERM. DATUM
Drilling Measured From	KB
Elev.: K.B.	183.0
G.L.	165.0
Date	10-NOV-1993
Run No.	ONE
Depth-Driller	5247
Depth-Logger	5247
Bottom Logged Interval	5247
Top Log Interval	1157
Casing-Driller	13.375 @ 1157
Casing-Logger	1157
Bit Size	12.25
Type Fluid in Hole	FRESH
Dens. / Visc.	8.7 LB/G / 47 S
pH / Fluid Loss	10.5 / 6.0 C3
Source of Sample	FLOWLINE
Rm @ Meas. Temp.	.1 @ 70 DEGF
Rmf @ Meas. Temp.	.08 @ 70 DEGF
Rmc @ Meas. Temp.	.12 @ 70 DEGF
Source of Rmf / Rmc	CALC / CALC
Rm @ BHT	.05 @ 182 DEGF
Time Since Circulation	24 HRS
Max. Rec. Temp.	182 DEGF
Equipment No.	3256
Location	NEWPORT
Recorded By	T. HOWARD
Witnessed By	MR. MCDONALD

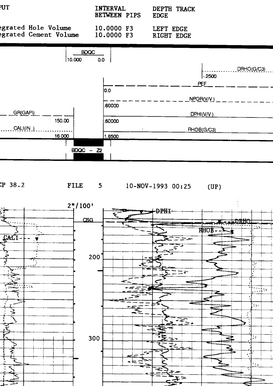
The well name, location and borehole reference data were furnished by the customer.

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.	924380
Drilling Fluid Level	5247
Salinity	
Rmf @ BHT	4.372 OHMM @ 87.0 DEGF
Rmc @ BHT	2.853 OHMM @ 87.0 DEGF
Logging Speed	3600.0 FPHR
EQUIPMENT DATA	
Tool Number 1	DNB-C 3756
Tool Number 2	NSC-E 2939
Tool Number 3	DAC-HA 2524
Tool Number 4	SGC-SA 544
Tool Number 5	TCM-AB 1518
Tool Number 6	
Tool Number 7	
Tool Number 8	
Tool Number 9	
Tool Number 10	
Tool Number 11	
Tool Number 12	

REMARKS:
CORRELATED TO SWS INDUCTION LOG
SOME HEADER INFORMATION NOT AVAILABLE AT WELLSITE

LOGGING TOOL STRING SKETCH



TOTAL TOOL STRING LENGTH IS 36.4 F.
TOTAL TOOL STRING WEIGHT IS 658. LB IN AIR.

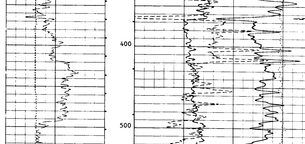
Main Log - 2 :100

ACCUMULATED INTEGRATION VALUES SUMMARY:

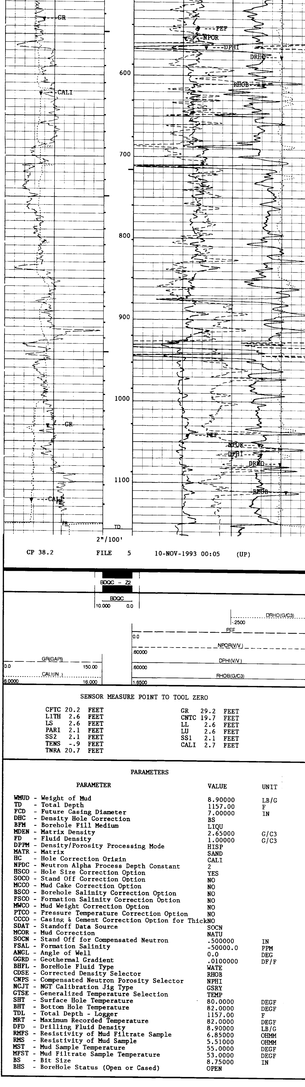
Integrated Hole Volume:	498.788 F3	FROM 1157.00 F	TO 154.000 F
Integrated Cement Volume:	232.066 F3	FROM 1157.00 F	TO 154.000 F
(ASSUMING 7.00000 IN O.D. CASING)			

EVENT MARK SUMMARY:

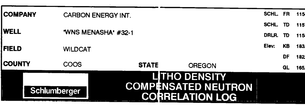
OUTPUT	INTERVAL BETWEEN PIPS	DEPTH TRACK EDGE
Integrated Hole Volume	10.0000 F3	LEFT EDGE
Integrated Cement Volume	10.0000 F3	RIGHT EDGE



CP 38.2 FILE 5 10-NOV-1993 00:25 (UP)



CP 38.2 FILE 5 10-NOV-1993 00:05 (UP)



SENSOR MEASURE POINT TO TOOL ZERO

CFTC 20.2	FEET	GR 29.2	FEET
L1TH 2.6	FEET	CMTC 19.7	FEET
LS 2.6	FEET	LL 2.6	FEET
PART 2.1	FEET	LU 2.6	FEET
SS2 2.1	FEET	SS1 2.1	FEET
TENS .9	FEET	CALI 2.7	FEET
TNRA 20.7	FEET		

PARAMETERS

PARAMETER		VALUE	UNIT
MMUD	- Weight of Mud	8.90000	LB/G
TD	- Total Depth	1157.00	F
FCD	- Picture Casing Diameter	7.00000	IN
DBC	- Density Hole Correction	BS	
RFM	- Borehole Fill Medium	LIQU	
MDEN	- Matrix Density	2.65000	G/C3
FD	- Fluid Density	1.00000	G/C3
DPPM	- Density/Porosity Processing Mode	RISP	
MATR	- Matrix	SAND	
HC	- Hole Correction Origin	CALI	
NPHC	- Neutron Alpha Process Depth Constant	2	
HSCO	- Hole Size Correction Option	YES	
SOCO	- Stand Off Correction Option	NO	
MCOO	- Mud Cake Correction Option	NO	
RSCO	- Borehole Salinity Correction Option	NO	
FSCO	- Formation Salinity Correction Option	NO	
MWCO	- Mud Weight Correction Option	NO	
PTCO	- Pressure Temperature Correction Option	NO	
CCCO	- Casing & Cement Correction Option for Thick	NO	
SDAT	- Standoff Data Source	SOCN	
MCOR	- Mud Correction	MATU	
SOCN	- Stand Off for Compensated Neutron	.500000	IN
FSAL	- Formation Salinity	-50000.0	PPM
ANGL	- Angle of Well	0.0	DEG
GGRD	- Geothermal Gradient	-.0100000	DF/F
BSTY	- BoreHole Fluid Type	WATE	
CDES	- Correction Density Selector	SBKB	
CNPS	- Compensated Neutron Porosity Selector	NPHI	
MCJT	- Mud Correction Jig Type	GSRY	
CTSS	- Generalized Temperature Selection	TEMP	
SST	- Surface Hole Temperature	80.0000	DEGF
BHT	- Bottom Hole Temperature	81.0000	DEGF
TDL	- Total Depth - Logger	5247.00	F
MST	- Maximum Recorded Temperature	82.0000	DEGF
DFD	- Drilling Fluid Density	8.90000	LB/G
RMFS	- Resistivity of Mud Filtrate Sample	4.85000	OHMM
RMS	- Resistivity of Mud Sample	5.51000	OHMM
MST	- Mud Sample Temperature	55.0000	DEGF
MFST	- Mud Filtrate Sample Temperature	53.0000	DEGF
BS	- Bit Size	8.75000	IN
BHS	- BoreHole Status (Open or Cased)	OPEN	

COMPANY	CARBON ENERGY INT.	SCHL. FR	1154.0 F
WELL	'WNS MENASHA' #32-1	SCHL. TD	1157.0 F
		DRLR. TD	1158.0 F
FIELD	WILDCAT	Elev.: KB	183.0 F
COUNTY	COOS STATE OREGON	DF	182.0 F
		GL	165.0 F

Schlumberger

LITHO DENSITY COMPENSATED NEUTRON CORRELATION LOG