

COMPANY NORTHWEST NATURAL GAS  
WELL OM 330-3-65  
FIELD MIST (FLORA POOL STORAGE)  
COUNTY COLUMBIA STATE OR  
APNO 38-006-0280  
Location 101342 N 01 05 00 W  
X 12500000 S 108 W  
TWP 6N R1E S34E  
SHEET 3  
Log measured from K.B. 14.0' above perm datum  
Permit No. 01-10733  
Elev. 61.0  
Other Services  
EMIT-A  
STATE OR

COMPANY NORTHWEST NATURAL GAS  
WELL OM 330-3-65  
FIELD MIST (FLORA POOL STORAGE)  
COUNTY COLUMBIA STATE OR

DATE TIME 2007-06-11 03:34:55  
LOG MEASURED FROM K.B. 14.0' ABOVE PERM DATUM  
PERMIT NO. 01-10733  
ELEV. 61.0  
OTHER SERVICES  
EMIT-A  
STATE OR

DATE TIME 2007-06-11 03:34:55  
LOG MEASURED FROM K.B. 14.0' ABOVE PERM DATUM  
PERMIT NO. 01-10733  
ELEV. 61.0  
OTHER SERVICES  
EMIT-A  
STATE OR

**HALLIBURTON**  
HRI/BCS/SDL/DSN  
2"=100'

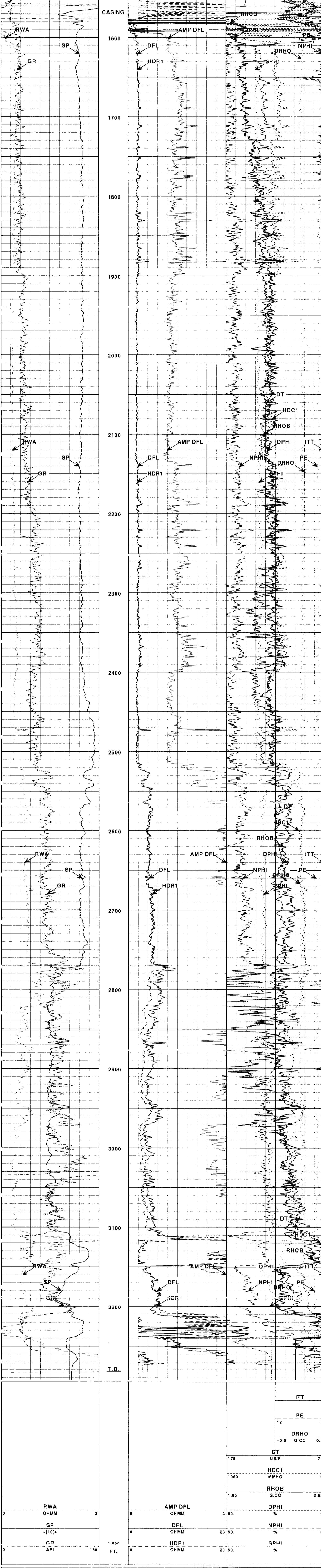
Run No.	Depth	Gamma Scale	Acoustic Scale	Density Scale	Neutron Scale
ONE	3282	1571	60	1.85	2.85

Remarks:  
MAGNETIC DECLINATION 19.1 DEGREES.  
RUN 1: HRI/BCS-FACT, RUN 2: SDLT-DSNT-NGRT.  
RUN 1, RUN2 MERGED FOR FINAL PRESENTATION.

CREW: M. EMERSON, I. PYLES, S. FANCHER. RIG: TD DRILLING NO. 101.

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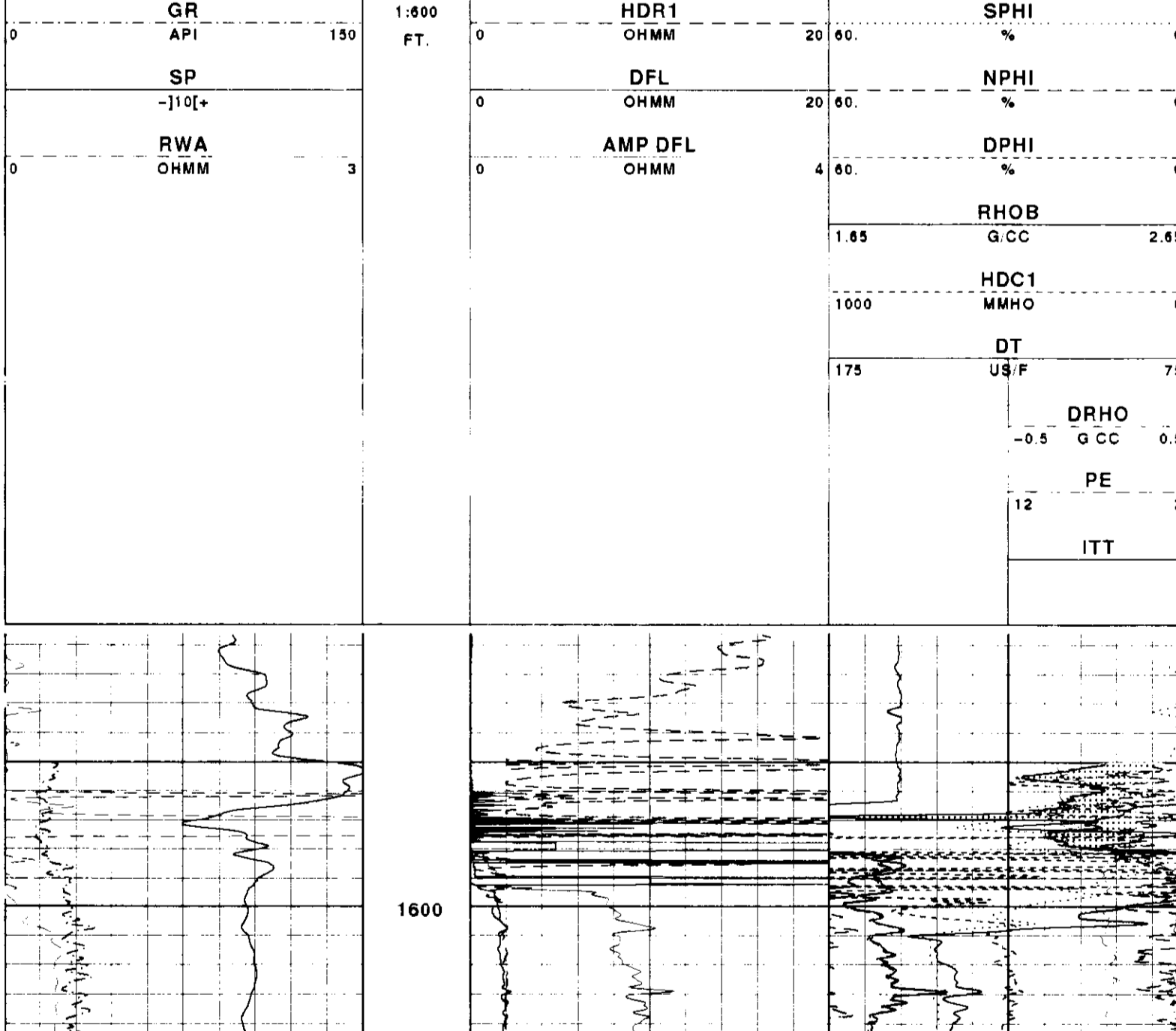
Version No: | hc:3.0  
Data File: MER1.cls  
Format File: 2.QUAD.spc  
Plot Time: 2007-06-11 03:34:55  
Database Time: 03:24:37  
Top Depth: 1471.00  
Bottom Depth: 3282.25



Version No: | hc:3.0  
Data File: MER1.cls  
Format File: 2.QUAD.spc  
Plot Time: 2007-06-11 03:34:49  
Database Time: 03:24:37  
Top Depth: 1471.00  
Bottom Depth: 3282.25

**REPEAT SECTION**

Version No: | hc:3.0  
Data File: REPEAT.MER1.cls  
Format File: 2.QUAD.spc  
Plot Time: 2007-06-11 03:35:24  
Database Time: 03:28:40  
Top Depth: 1905.00  
Bottom Depth: 1819.83



Version No: | hc:3.0  
Data File: REPEAT.MER1.cls  
Format File: 2.QUAD.spc  
Plot Time: 2007-06-11 03:35:22  
Database Time: 03:28:40  
Top Depth: 1905.00  
Bottom Depth: 1819.83

**Current EXCEL-2000 Parameter Values**

Depth: 189.750  
Date: 10-Jun-2007 23:32:  
Service Number: 2241  
Software Version: 5.7

Mnemonic	Tool	Parameter Description	Value	Units
PERF	DITSHD	PERFORATED INTERVAL	NO	
TD	DITSHD	TOTAL DEPTH (FOR ANNOTATION)	0.	FT
CS-ANT	DITSHD	CASING DEPTH (FOR ANNOTATION)	0.	FT
ANTSPA	FACMAN	ANNOTATION LABEL SPACING?	500	FT
FWSTOK	BCS	DO FWST CALCULATIONS?	YES	
WYLIE	BCS	ACOUSTIC POROSITY EQUATION	HLSP	
DTSHA	BCS	DELTA T SHALE	100	uSec/Ft.
DTMAT	BCS	DELTA T MATRIX	55.5	uSec/Ft.
DTFLU	BCS	DELTA T FLUID?	189.	uSec/Ft.
RHOWAT	BCS	MATRIX DENSITY	2.65	Grams/CC
SHFLU	SHARED	CASING DEPTH	2	Feet
DTFT	BCS	USE 1 OR 2 FT DT FOR POROSITY	2	
ARCHA	SHARED	ARCHIE A	0.81	
ARCHM	SHARED	ARCHIE M	0.	
FSEL	SHARED	POROSITY SELECTION FOR F	ACOU	
USEFIX	BCS	USE MINIMUM FIXED THRESHOLD.	NO	
USENOI	BCS	USE NOISE THRESHOLD FOR PICK.	NO	
TDL_OK	TDLF	USE TDL DISPLAY CONTROLS?	YES	
XPHLOC	XP_R8A	CROSSPLOT SELECTION FOR XPOR	XPLT	
BASED	SHARED	IS THE HOLE CASED?	NO	
FACTOK	FACMAN	DO FACT CALCULATIONS?	YES	
ARVOK	FACMAN	BIT SIZE	7.875	Inches
CASEOD	FACMAN	DO ANNULAR VOLUME CALCULATION?	YES	
HRI_OK	HRIDE	CASING DIAMETER (OD)	75.	Inches
DFL_OK	HRIDE	DO HRI INDUCTION CALCULATION?	YES	
SPFL_UK	HRIDE	DO SPFL CALCULATIONS?	NO	
PYRITE	HRIDE	PYRITE SWITCH	NO	OHMM
CASING	HRIDE	CASING DEPTH	0.	Feet
HRIIDSP	HRIDE	SPIKE REDUCTION FILTER TYPE?	DELTA	
HRIIC	HRIDE	HRI TEMPERATURE CORRECTION	NONE	
CTEM	HRIDE	CONST TEMPERATURE	75.	Deg F
BHT	HRIDE	BOTTOM HOLE TEMPERATURE	99	Degrees F
TSURF	HRIDE	SURFACE TEMPERATURE	60.	Degrees F
BHD	HRIDE	BOTTOM HOLE DEPTH	3281.	Feet
SP	HRIDE	USE DIGITAL SP?	NO	
SP_OF	HRIDE	SPONTANEOUS POTENTIAL OFFSET	0.	
TRM	HRIDE	MUD RESIST AT SURFACE (0-Air)	2.	OHMM
RHOWM	HRIDE	TEMPERATURE OF MUD	75.	DEGF
BRMIN	HRIDE	MINIMUM RESISTIVITY FOR MAP?	0.2	OHMM
RRMAX	HRIDE	MAXIMUM RESISTIVITY FOR MAP?	200.	OHMM

COMPANY NORTHWEST NATURAL GAS  
WELL OM 330-3-65  
FIELD MIST (FLORA POOL STORAGE)  
COUNTY COLUMBIA STATE OR

**HALLIBURTON** QUAD COMBO HRI/BCS/SDL/DSN 2"=100'