CER 13-01-55

HALLIBURTON LOGGING SERVICES, INC.

FINAL PRINT

8X2X45 DIPMETER COMPUTATION

5" = 100'

COMPANY ______
WELL ______
FIELD ______
COUNTY ______ ST __

COMPANY ARCO OIL AND GAS COMPANY

WELL BANANA SLUG PROSPECT C.E.R. 13-1-55

FIELD MIST

COUNTY COLUMBIA | STATE OR

API NO. N/A

LOCATION : WWM 1522 FEET NORTH AND 289 FEET EAST FROM THE SOUTHWEST CORNER OF: SEC. 1 TWP 5N RGE 5W

OTHER SERVICES: DIG/AVL/GR DSN/SDL

PERMANENT DATUM G.L. ELEV. 729.75
LOG MEASURED FROM K.B. 11.5FT.ABOVE PERM.DATUM
DRILLING MEASURED FROM KELLY BUSHING

ELEV.:K.B. 741.25
D.F. -----
G.L. 729.75

DATE	11/05/89			
RUN NO.	ONE			
DEPTH-DRILLER	1480			
DEPTH-LOGGER	1480			
BTM. LOG INTER.	1475			
TOP LOG INTER.	465			
CASING-DRILLER	9 5/8@465	@	@	@
CASING-LOGGER	465			
BIT SIZE	6 1/4			
TYPE FLUID IN HOLE	POLYMER			
DENS. : VISC	11.1 :47	:	:	:
PH : FLUID LOSS	10.0 :6.4	:	:	:
SOURCE OF SAMPLE	CIRCULATED			
RM @ MEAS. TEMP	1.73 @75	@	@	@
RMF @ MEAS. TEMP.	1.41 @75	@	@	@
RMC @ MEAS. TEMP.	1.80 @72	@	@	@
SOURCE RMF : RMC	MEAS.:MEAS.	:	:	:
RM @ BHT	1.35 @ 98	@	@	@
TIME SINCE CIRC.	15 HOURS			
TIME ON BOTTOM	11:00 AM			
MAX. REC. TEMP.	98 @BHT	@	@	@
EQUIP. : LOCATION	2890 :WDLND	:	:	:
RECORDED BY	B.JOHNSON			
WITNESSED BY	JIM EASTES			

Fold Here

Service Ticket No.: 12312 API Serial No.: N/A PGM Version: 1.31 PC

Change in Mud Type or Additional Samples		
Date/Sample No.	11/04/89:ONE	/ / :
Depth-Driller		
Type Fluid in Hole		
Dens. : Visc.	:	:
pH. : Fluid Loss	:	:
Source of Sample		
Rm @ Meas.Temp.	@	@
Rmf @ Meas.Temp.	@	@
Rmc @ Meas.Temp.	@	@
Source: Rmf:Rmc	:	:
Rm @ BHT	1.35 @98	@
Rmf @ BHT	1.10 @98	@
Rmc @ BHT	1.35 @98	@

RESISTIVITY SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA

Run No	Tool Type & No	Pad Type	Tool Pos.	Other
ONE	DUAL W109432	N/A	1.5"S.O.	M412
ONE	SGRD W108932	N/A	1.5"S.O.	M416
ONE	DIP W28575	4-ARM	CENT	M232

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	W108581	Serial No.	W112458	Serial No.	W109740	Serial No.	W108749
Model No.	432	Model No.	305	Model No.	465	Model No.	434
Diameter	3 5/8	No.of Cent.	FOUR	Diameter	4 1/2	Diameter	3 3/8
Detector Model No.	N/A	Spacing	1 FOOT	Log Type	SDL	Log Type	DSN
Type	SCINT.			Source Type	CS 137	Source Type	AM241BE
Length	4 IN.	LSA	YES	Serial No.	118	Serial No.	66
Distance To Source	N/A	FWDA	NO	Strength	1.5 CU	Strength	19. CU

LOGGING DATA

GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale			Scale			Scale		
No.	From	To	Ft/Min	L	R	L	R	Matrix	L	R	Matrix	L	R	Matrix
ONE	1480	465	30	0	150	150	50	57US	1.65	2.65	2.65	60	0	SAND
					API						G/CC		PU	

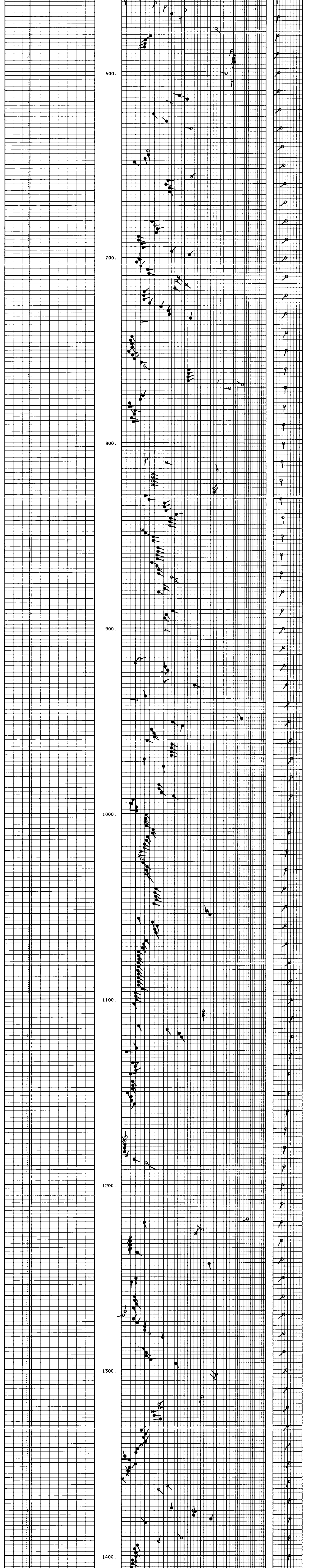
Remarks: A DEVIATION OF 19 DEGREES WAS USED TO CALCULATE AZIMUTH.

CREW ON LOCATION: KIBBE, ROUSSEAU
THANK YOU FOR USING HALLIBURTON LOGGING SERVICES!!

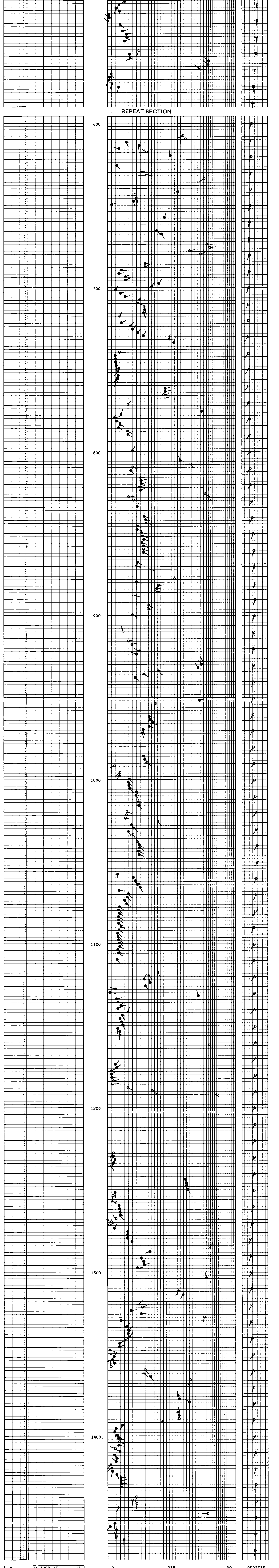
Halliburton Logging Services, Inc. does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by HLS personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions or recommendations agrees that HLS is not responsible except where due to gross negligence or wilful misconduct, for any loss, damages, or expenses resulting from the use thereof.

LOG : C.E.R. 13-1-55
DATE : 11/ 5/1989
WELEX LOG PLOT

4. CALIPER 24 14.
4. CALIPER 13 14.
0. DIP 90. 0DRIFT5.



REPEAT SECTION



4. CALIPER 13 14.
4. CALIPER 24 14.
0. DIP 90. 0DRIFT5.