ResTech

INCLINE

COMPUTED DIPMETER RESULTS

TAPE NUMBER

CLIENT NAHAMA & WEAGANT ENERGY COMPANY
COMPANY NAHAMA & WEAGANT ENERGY COMPANY
WELL C.E.R. #11-16-64
FIELD MIST
COUNTY COLUMBIA STATE OREGON

LOCATION: 1092'S AND 1365'E
FROM NW CORNER
SEC 16 TWP 6N RGE 4W

OTHER COMPUTATIONS

PERMANENT DATUM GL ELEV. 1448.0
LOG MEASURED FROM KB , 11.6 FT. ABOVE PERM DATUM
DRILLING MEASURED FROM KB

ELEV K.B. 1460.0
D.F.
G.L. 1448.0

DATE	10-OCT-1990			
RUN NO.	1			
DEPTH - DRILLER	2338.000			
DEPTH - LOGGER	2338.000			
BOTTOM LOGGED INTERVAL	2335.000			
TOP LOGGED INTERVAL	590.000			
CASING - DRILLER	8.625 AT 592.0	AT	AT	AT
CASING - LOGGER	590.000			
BIT SIZE	7.875			
TYPE FLUID IN HOLE	GEL POLYMER			
CASING SIZE/WT.				
DENSITY VISCOSITY	9.200 47.000			
PH FLUID LOSS	8.000 4.80 ML	ML	ML	ML
SOURCE OF SAMPLE	FLOWLINE			
R_m AT MEASURED TEMP.	4.390 AT 66.0 F	AT F	AT F	AT F
R_{mf} AT MEASURED TEMP.	5.700 AT 46.0 F	AT F	AT F	AT F
R_{mc} AT MEASURED TEMP.	5.100 AT 46.0 F	AT F	AT F	AT F
SOURCE: R_{mf} R_{mc}	MEASUR MEASUR			
R_m AT BHT	3.601 AT 82 F	AT F	AT F	AT F
TIME SINCE CIRCULATION	4.66 HRS			
MAX. REC. TEMP.	82.00F	F	F	F
LOGGING CONTRACTOR	SCHLUM			
RECORDED BY	PILCH/LOPEZ			
WITNESSED BY	VAUGHAN	PARKER	THOMAS	CHALMERS

FOLD HERE

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS. WE CANNOT. AND WE DO NOT GUARANTEE THE ACCURACY OR THE CORRECTNESS OF AN INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS. COST. DAMAGES. OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

COMPUTATION	LOGS USED: DIPMETER		PROGRAM: V1.9
	CENTER: HOUSTON	LOG ANALYST: DELANO	DATE: - 10/22/90
	REFERENCE: 500459	INCLINE FILE: C02	

COMPUTATION PARAMETERS

DEPTH INTERVAL		DEPTH UNITS	CORLN. LENGTH	CORLN. STEP	SEARCH ANGLE	SEARCH REFERNCE	SEARCH MAXIMUM	MAGNETIC DECLN.	TIE DEP. MEAS.	TIE DEP. TRUE	SHRT TRM AVERAGE
FROM	TO										
2330.00	590.00	FEET	9.00 F	3.00 F	60.00	BOREHOLE	75.00	20.0 E			6.00

REMARKS:
SEARCH ANGLE SPECIFIED IN DEGREES.
DEPTH OF INVESTIGATION 0.9 INCHES MEASURED RADIALLY.
SOLID ARROWS - CORRELATION COEFFICIENT ABOVE : 0.30
OPEN ARROWS - CORRELATION COEFFICIENT BETWEEN: 0.30 AND 0.10
CORRELATIONS IGNORED IF COEFFICIENT IS BELOW : 0.10

AZIMUTH
-40 360 -1.0 DEVIATION 9.0

RELATIVE BEARING
-40 360 6 CALIPER 1-3 16

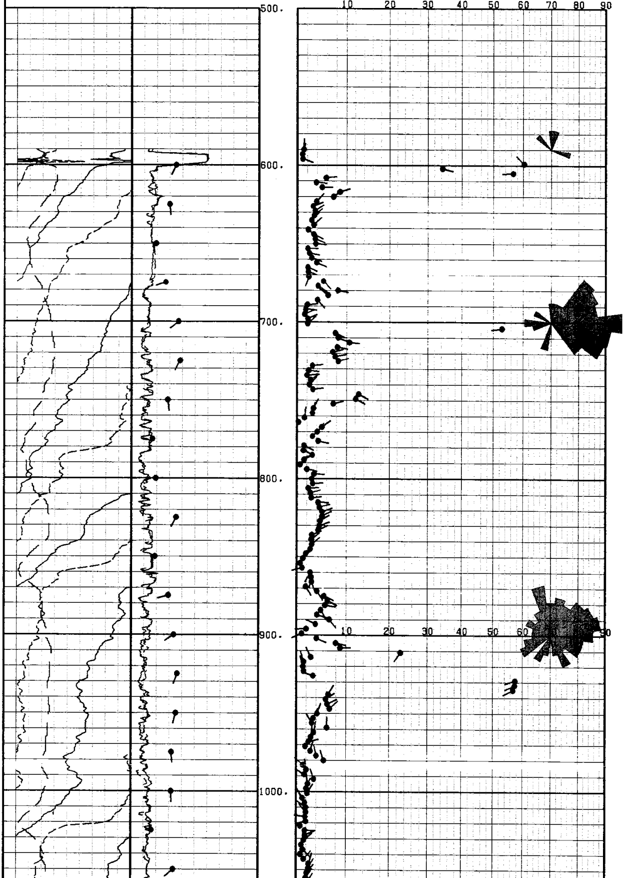
DEVIATION
-1.0 9.0 6 CALIPER 2-4 16

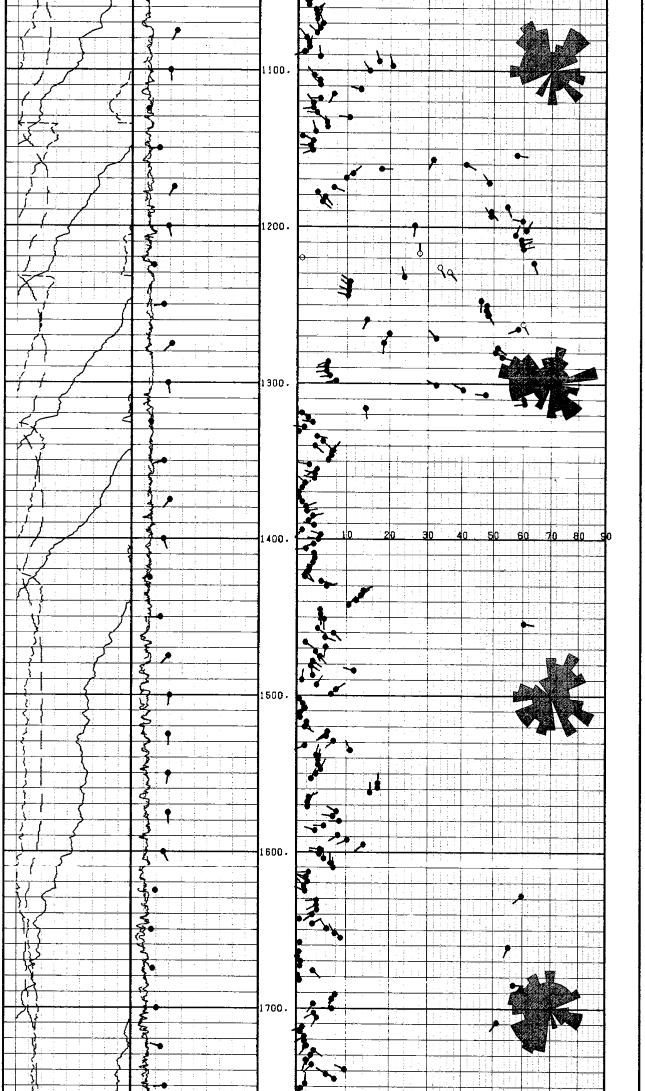
DEPTH
1:600

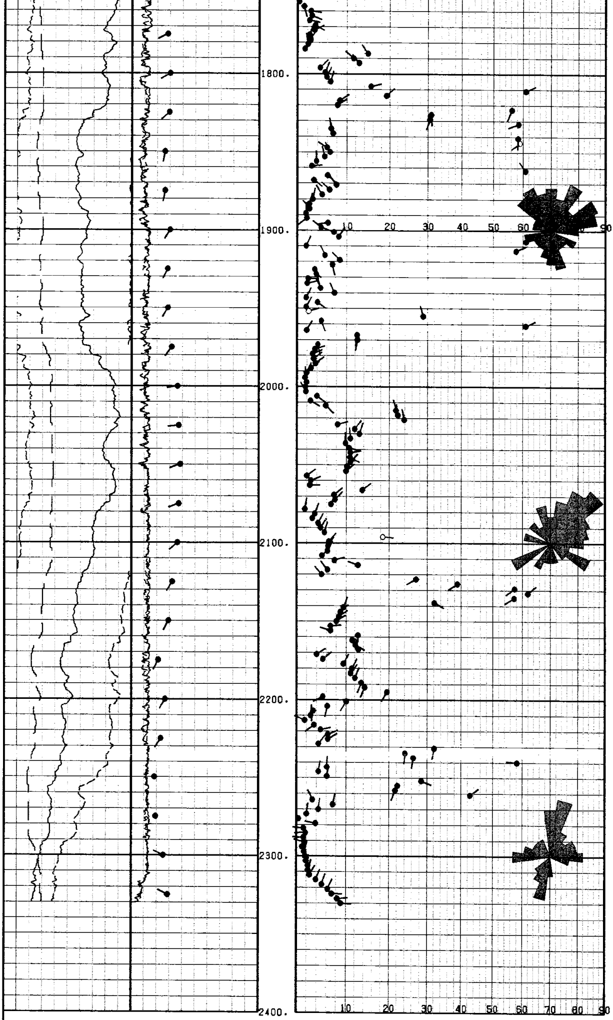
DIP ORIENTATION
PLOTTED RELATIVE TO THE HORIZON

LOGGING CONTRACTOR: SCHLUMBERGER
TOOL TYPE : SHDT
DATA SOURCE : SHDT FIL2 EDIT TAPE
CORRELATION OPTION: SHDT PAD-TO-PAD (MC)

● CORRELATION COEFFICIENT ABOVE: 0.30
○ CORRELATION COEFFICIENT ABOVE: 0.10







AZIMUTH
-40 360 -1.0

DEVIATION
9.0

RELATIVE BEARING
-40 360 6

CALIPER 1-3
16

DEVIATION
-1.0 9.0 6

CALIPER 2-4
16

DEPTH

1:600

DIP ORIENTATION
PLOTTED RELATIVE TO THE HORIZON

LOGGING CONTRACTOR: SCHLUMBERGER
TOOL TYPE : SHDT
DATA SOURCE : SHDT FIL2 EDIT TAPE
CORRELATION OPTION: SHDT PAD-TO-PAD (MC)

● CORRELATION COEFFICIENT ABOVE: 0.30
○ CORRELATION COEFFICIENT ABOVE: 0.10

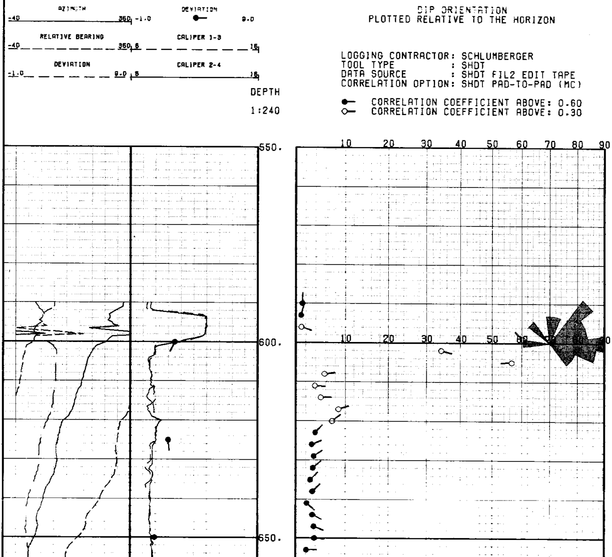
RESTECH HOUSTON
INCLINE
COMPUTED DIPMETER RESULTS

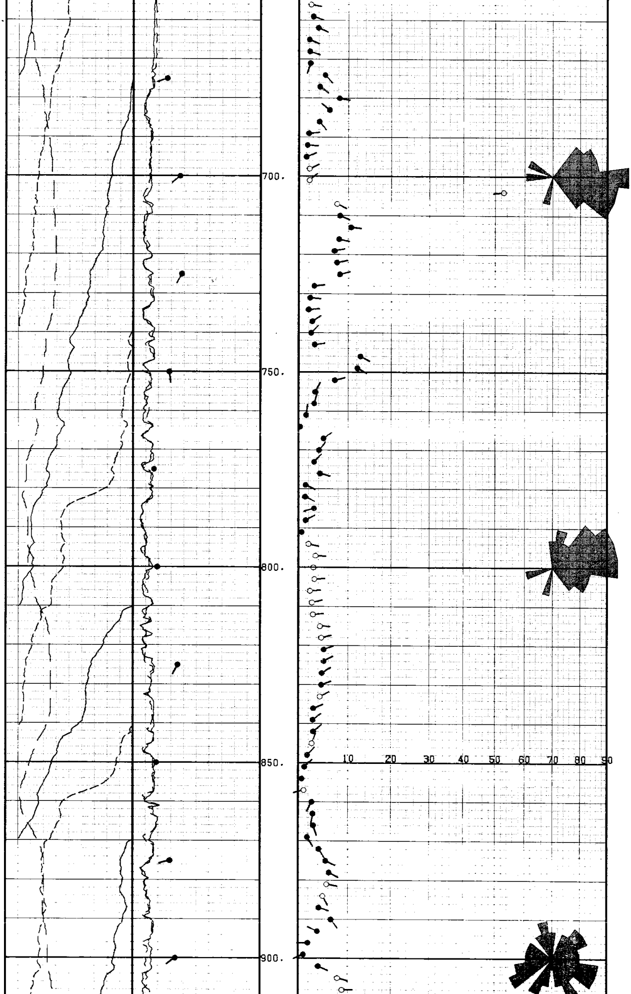
COMPANY	:	NAHAMA & WEAGANT ENERGY COMPANY
FIELD	:	MIST
WELL	:	C.E.R. #11-16-64
CORRELATION INTERVAL	:	9.00 FEET
CORRELATION STEP	:	3.00 FEET
SEARCH ANGLE	:	60.00 DEGREES
SEARCH REFERENCE	:	BOREHOLE
MAXIMUM SEARCH	:	75.00 DEGREES
MAGNETIC DECLINATION	:	**20.0 E**
SHORT TERM AVERAGE	:	6.00
INCLINE FILE	:	C02
DATE/TIME	:	90/10/22 AT 11:59:39
ANALYST	:	500459

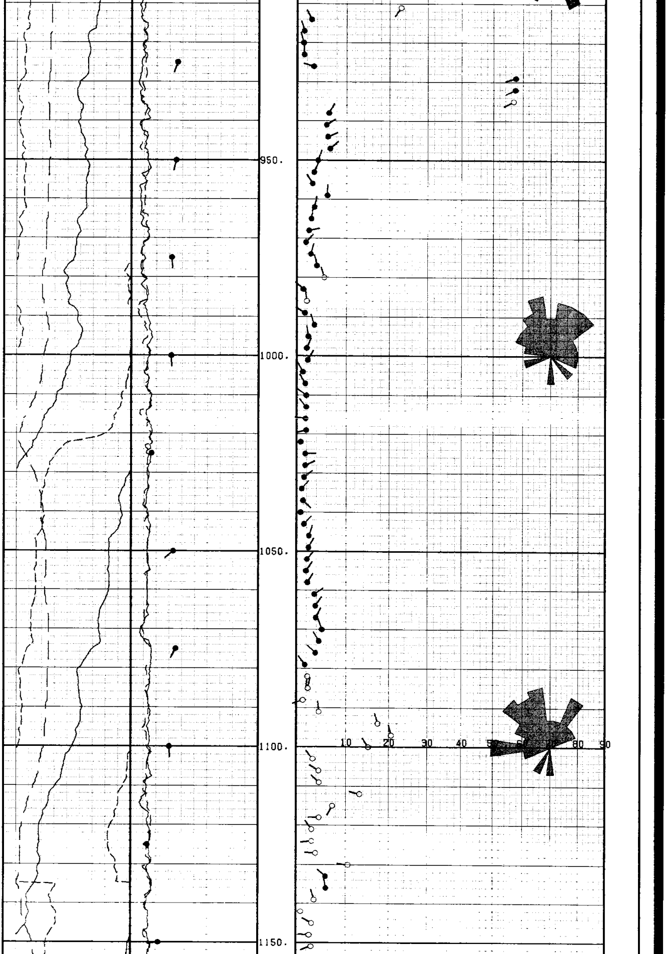
DIP ORIENTATION
PLOTTED RELATIVE TO THE HORIZON

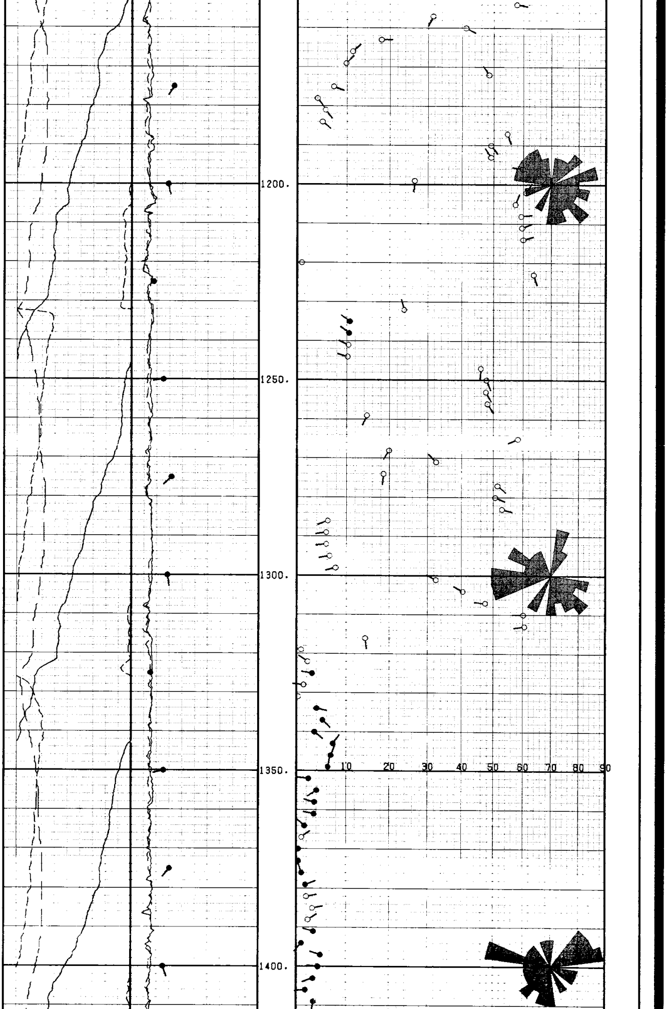
LOGGING CONTRACTOR: SCHLUMBERGER
TOOL TYPE : SHDT
DATA SOURCE : SHDT FIL2 EDIT TAPE
CORRELATION OPTION: SHDT PAD-TO-PAD (MC)

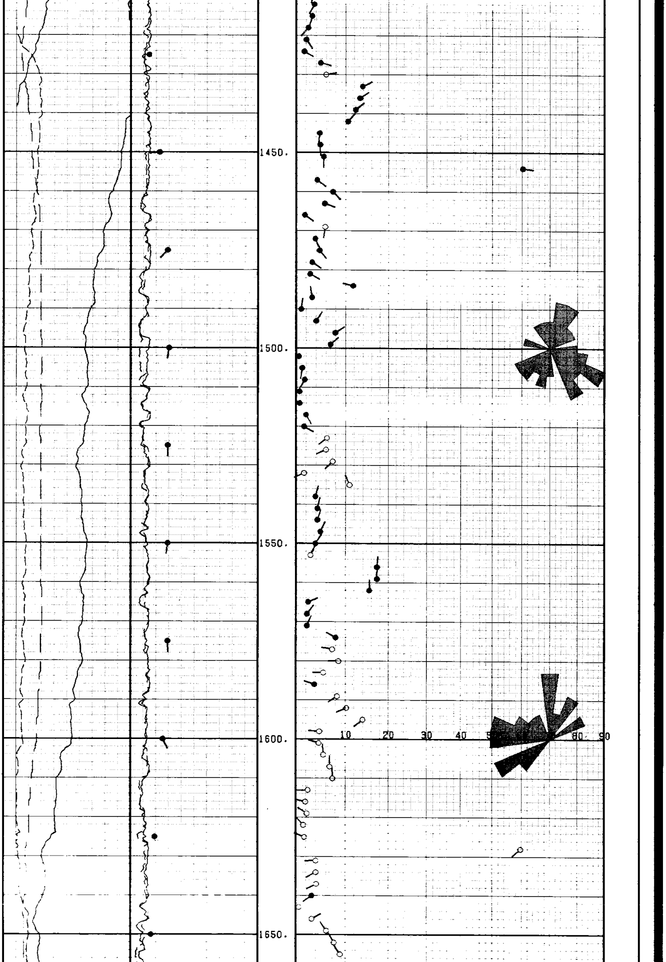
● CORRELATION COEFFICIENT ABOVE: 0.60
○ CORRELATION COEFFICIENT ABOVE: 0.30

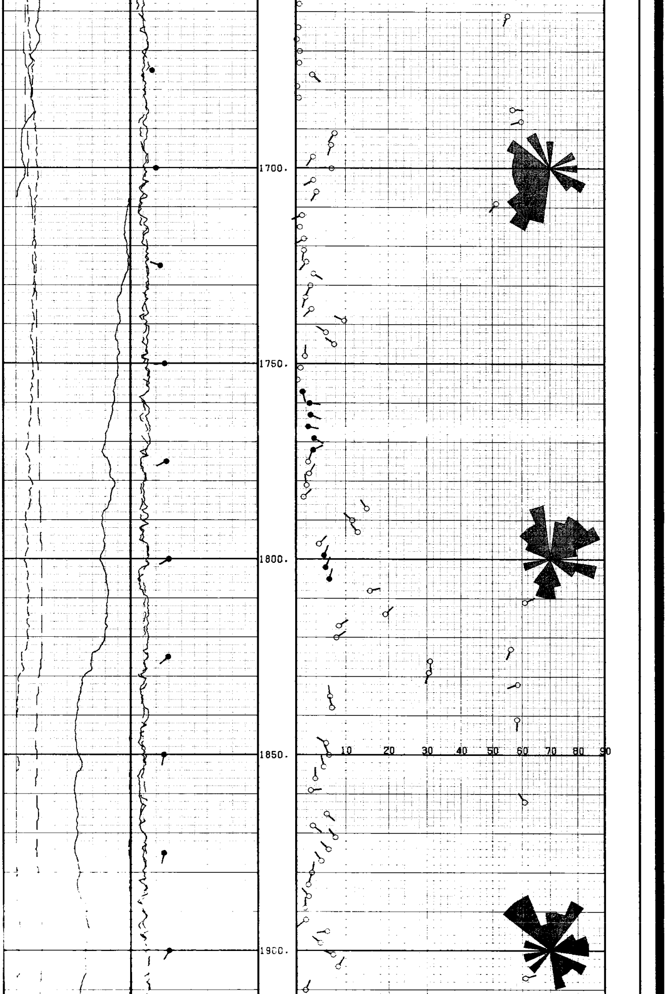


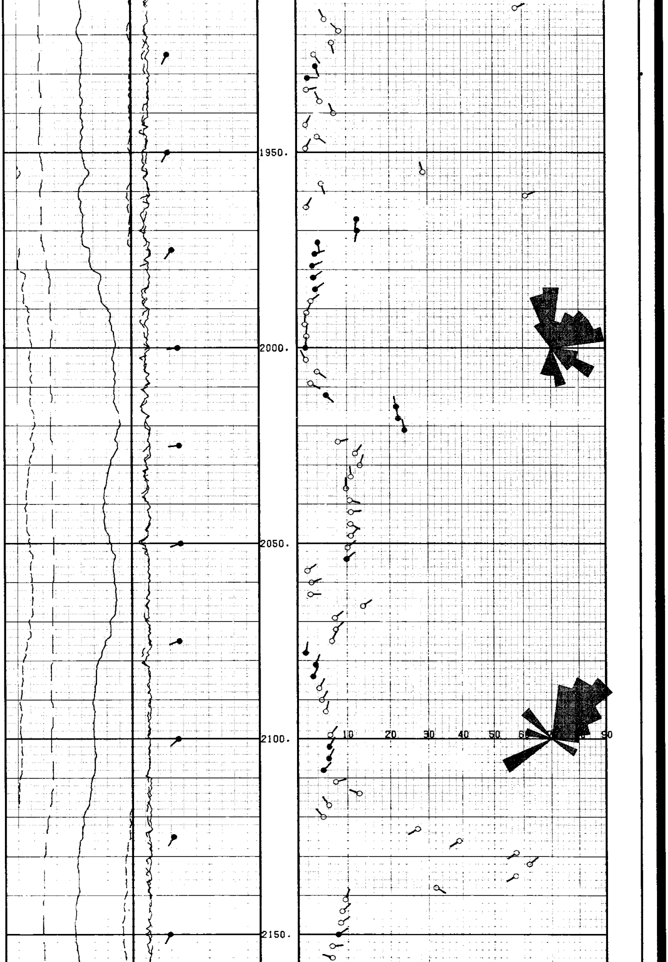


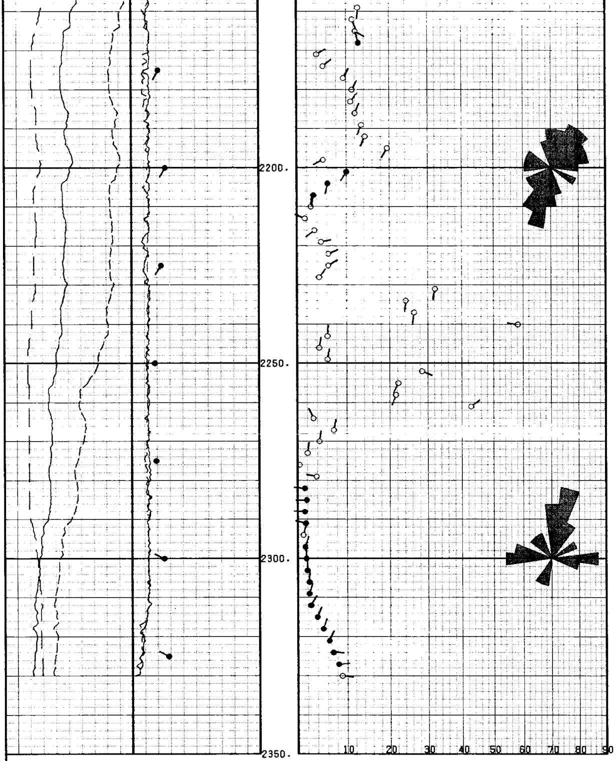












AZIMUTH
-40 360

DEVIATION
-1.0 ●— 9.0

RELATIVE BEARING
-40 360

CALIPER 1-3
6 16

DEVIATION
-1.0 9.0

CALIPER 2-4
6 16

DEPTH

1:240

DIP ORIENTATION
PLOTTED RELATIVE TO THE HORIZON

LOGGING CONTRACTOR: SCHLUMBERGER
TOOL TYPE : SHDT
DATA SOURCE : SHDT FIL2 EDIT TAPE
CORRELATION OPTION: SHDT PAD-TO-PAD (MC)

●— CORRELATION COEFFICIENT ABOVE: 0.60
○— CORRELATION COEFFICIENT ABOVE: 0.30

RESTECH HOUSTON

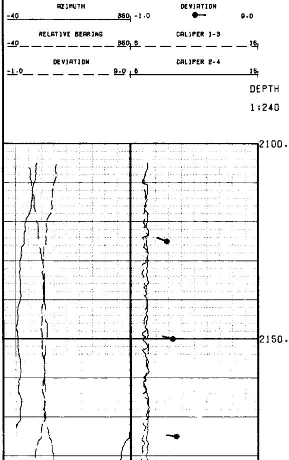
INCLINE

COMPUTED DIPMETER RESULTS

COMPANY : NAHAMA & WEAGANT ENERGY COMPANY
FIELD : MIST
WELL : C.E.R. #11-16-64

CORRELATION INTERVAL : 9.00 FEET
CORRELATION STEP : 3.00 FEET
SEARCH ANGLE : 60.00 DEGREES
SEARCH REFERENCE : BOREHOLE
MAXIMUM SEARCH : 75.00 DEGREES
MAGNETIC DECLINATION : **20.0 E**
SHORT TERM AVERAGE : 6.00

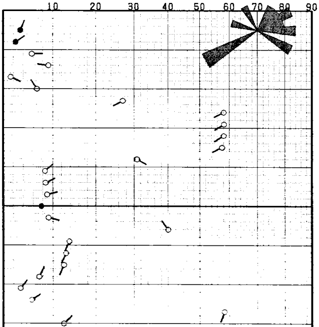
INCLINE FILE : C01
DATE/TIME : 90/10/22 AT 11:59:50
ANALYST : 500459

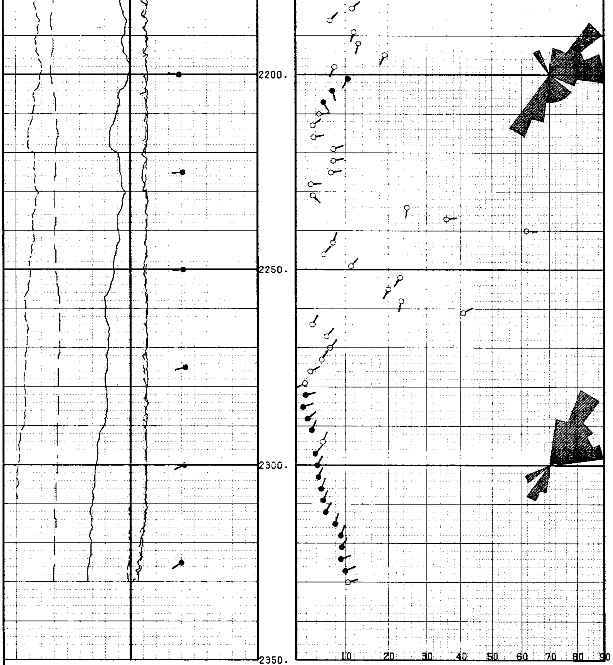


DIP ORIENTATION
PLOTTED RELATIVE TO THE HORIZON

LOGGING CONTRACTOR: SCHLUMBERGER
TOOL TYPE : SHDT
DATA SOURCE : SHDT FIL2 EDIT TAPE
CORRELATION OPTION: SHDT PAD-TO-PAD (MC)

● CORRELATION COEFFICIENT ABOVE: 0.60
○ CORRELATION COEFFICIENT ABOVE: 0.30





DIP ORIENTATION
PLOTTED RELATIVE TO THE HORIZON

AZIMUTH		DEVIATION	
-40	360	-1.0 ●—	9.0
RELATIVE BEARING		CALIPER 1-3	
-40	360	6	16
DEVIATION		CALIPER 2-4	
-1.0	9.0	6	16

DEPTH

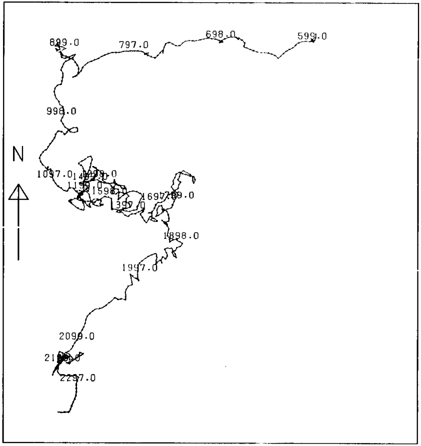
1:240

LOGGING CONTRACTOR: SCHLUMBERGER
TOOL TYPE : SHDT
DATA SOURCE : SHDT FIL2 EDIT TAPE
CORRELATION OPTION: SHDT PAD-TO-PAD (MC)

●— CORRELATION COEFFICIENT ABOVE: 0.60
○— CORRELATION COEFFICIENT ABOVE: 0.30

DIP AZIMUTH VECTOR

COMPANY : NAHAMA & WEAGANT ENERGY COMPANY
FIELD : MIST
WELL : C.E.R. #11-16-64



PLOT INFORMATION

INCLINE FILE : C02
DATE/TIME : 90/10/22 AT 13:05:27
ANALYST : 500459

LOG INFORMATION

LOGGING CONTRACTOR : SCHLUMBERGER
TOOL TYPE : SHDT
DATA SOURCE : SHDT FIL2 EDIT TAPE
CORRELATION OPTION : C8 PAD-TO-PAD (MC)
CORRELATION INTERVAL : 9.00 FEET
CORRELATION STEP : 3.00 FEET
SEARCH ANGLE : 60.00 DEGREES
SEARCH REFERENCE : BOREHOLE
MAGNETIC DECLINATION : **20.0 E**
INCLINE VERSION : 1

EQUAL AREA (SCHMIDT) PLOT

COMPANY : NAHAMA & WEAGANT ENERGY COMPANY
FIELD : MIST
WELL : C.E.R. #11-16-64

PLOT INFORMATION

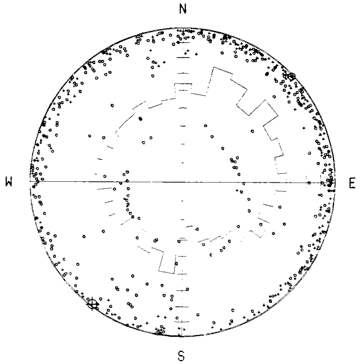
INTERVAL PLOTTED
MEAN DIP (CONE 90 DEG)
MEAN DIP (CONE 5 DEG)

COEFFICIENT ABOVE 0.3
COEFFICIENT ABOVE 0.6
MEAN WELL DEVIATION
INCLINE FILE
DATE/TIME
ANALYST

: 2330.00 - 590.00
: 0.3 AT 58 (574 DIPS)
: ⊙ 0.8 AT 47 (323 DIPS)
: ∘
: +
: ◆
:
: CO2
: 90/10/22 AT 13:20:13
: 500459

LOG INFORMATION

LOGGING CONTRACTOR : SCHLUMBERGER
TOOL TYPE : SHDT
DATA SOURCE : SHDT FIL2 EDIT TAPE
CORRELATION OPTION : C8 PAD-TO-PAD (MC)
CORRELATION INTERVAL : 9.00 FEET
CORRELATION STEP : 3.00 FEET
SEARCH ANGLE : 60.00 DEGREES
SEARCH REFERENCE : BOREHOLE
MAGNETIC DECLINATION : **20.0 E**
INCLINE VERSION : 1



EQUAL AREA (SCHMIDT) PLOT OF DIP VECTORS

STEREOGRAPHIC (WULFF) PLOT

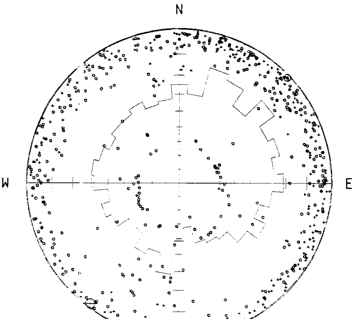
COMPANY : NAHAMA & WEAGANT ENERGY COMPANY
FIELD : MIST
WELL : C.E.R. #11-16-64

PLOT INFORMATION

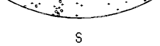
INTERVAL PLOTTED : 2330.00 - 590.00
MEAN DIP (CONE 90 DEG) : 0.3 AT 58 (574 DIPS)
MEAN DIP (CONE 5 DEG) : ⊙ 0.8 AT 47 (323 DIPS)
COEFFICIENT ABOVE 0.3 : ∘
COEFFICIENT ABOVE 0.6 : +
MEAN WELL DEVIATION : ◆
INCLINE FILE :
DATE/TIME : CO2
ANALYST : 90/10/22 AT 13:21:12
: 500459

LOG INFORMATION

LOGGING CONTRACTOR
TOOL TYPE
DATA SOURCE
CORRELATION OPTION
CORRELATION INTERVAL
CORRELATION STEP
SEARCH ANGLE
SEARCH REFERENCE
MAGNETIC DECLINATION
INCLINE VERSION



: SCHLUMBERGER
: SHDT
: SHDT FIL2 EDIT TAPE
: C8 PAD-TO-PAD (MC)
: 9.00 FEET
: 3.00 FEET
: 60.00 DEGREES
: BOREHOLE
: **20.0 E**
: 1



STEREOGRAPHIC (WULFF) PLOT OF DIP VECTORS

TANGENT PLOT

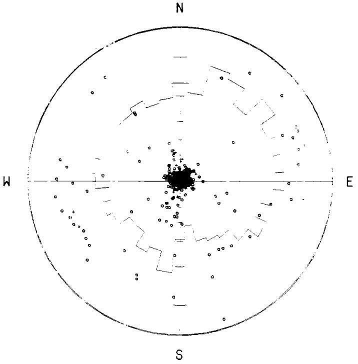
COMPANY : NAHAMA & WEAGANT ENERGY COMPANY
FIELD : MIST
WELL : C.E.R. #11-16-64

PLOT INFORMATION

INTERVAL PLOTTED : 2330.00 - 590.00
MEAN DIP (CONE 65 DEG) : 0.3 AT 58 (574 DIPS)
MEAN DIP (CONE 5 DEG) : ⊙ 0.8 AT 47 (323 DIPS)
COEFFICIENT ABOVE 0.3 : ∘
COEFFICIENT ABOVE 0.6 : ·
MEAN WELL DEVIATION : ⌖
INCLINE FILE : C02
DATE/TIME : 90/10/22 AT 13:09:20
ANALYST : 500459

LOG INFORMATION

LOGGING CONTRACTOR : SCHLUMBERGER
TOOL TYPE : SHDT
DATA SOURCE : SHDT FIL2 EDIT TAPE
CORRELATION OPTION : C8 PAD-TO-PAD (MC)
CORRELATION INTERVAL : 9.00 FEET
CORRELATION STEP : 3.00 FEET
SEARCH ANGLE : 60.00 DEGREES
SEARCH REFERENCE : BOREHOLE
MAGNETIC DECLINATION : **20.0 E**
INCLINE VERSION : 1



TANGENT PLOT SCALE AT PERIPHERY = 65 DEGREES