DUAL SPACING THERMAL NEUTRON DECAY TIME

Schlumberger

COMPANY: A. & R. LENZING, INC. (OPERATOR)
WELL: SWISCH NO. 6
FIELD: WILLCUT
COUNTY: RAITSO STATE: PENNSYLVANIA

SCALE: FR 20/1
SCALE: TD 2/10
DATE: 10-1-73
Elev.: KB ____
DF ____
GL ____

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Schlumberger Well Services, Inc.
Corporation, 125 Gear Avenue, Houston, Texas 77012

EQUIPMENT DATA

Recorder	7302
Logging Unit	5
Logging Truck	SCHLUMBER
Shot Cy.	2013
Pulse Cy.	2000
Gain Adj.	1000
Trim Adj.	1200
Trim A	1200
Trim B	1200
Trim C	1200

CALIBRATION DATA

Gamma Ray	BKG. CPS	1200
	Source CPS	1200
Dual Spacing	BKG. CPS	1200
	Source CPS	1200
Neutron	BKG. CPS	1200
	Source CPS	1200

REMARKS

Run No.	ONE
Depth Scale Dev. Indicator	2.5 FEET
Mud Type	SALT WATER
Mud Cake Thickness	1/16
Casing Size	9 5/8
Casing Weight	36.0
Casing Shoe	1200
Hole Size	8 3/4
Max. Temp.	100
Time Since Circ.	24 HRS
Time Since Stop	1 HR
Max. Rec. Temp.	100
Equipment Location	20 MILES
Recorded By	R. DEEP
Witnessed By	N. ROSS

SEE THE CR. SWISCH NO. 2-A FOR RATIO CALIBRATION.

REPEAT SECTION

1	2-10-73	26.7	2.0	1.5	4	2-10-73	2-10-73

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1	2-10-73	26.7	2.0	1.5	4	2-10-73	2-10-73

BACKGROUND FAR cps 0 1000
GAMMA RAY API UNITS 0 150
QUALITY 0 1.5
NEUTRON CAPTURE CROSS SECTION Σ capture units (cu) - SEWARD 50 15
THERMAL NEUTRON DECAY TIME τ μ sec 0 3
RATIO 0 2
Casing Collars Corrected Depth
FAR cps 2000 0
NEAR cps 4000 0

Casing Collars Corrected Depth
SP
RATIO
GAMMA RAY
QUALITY
FAR
NEAR

REPEAT SECTION

CALIBRATION RECORD

BACKGROUND FAR cps 0 1000
GAMMA RAY API UNITS 0 150
QUALITY 0 1.5
NEUTRON CAPTURE CROSS SECTION Σ capture units (cu) - SEWARD 50 15
THERMAL NEUTRON DECAY TIME τ μ sec 0 3
RATIO 0 2
Casing Collars Corrected Depth
FAR cps 2000 0
NEAR cps 4000 0

CALIBRATION RECORD

AFTER SURVEY CALIBRATION

5 3 2 1

BEFORE SURVEY CALIBRATION

5 3 2 1

LOW CALIBRATION

5 3 4 3 2 1

DUAL SPACING TDT CALIBRATION

TDT		RATIO		τ	τ	τ
1.	ZERO	0	0	0	0	0
2.	CALIBRATION (1)	0	100	0.7	0	0
3.	CALIBRATION (2)	30	300	11.1	3000	2000 – 200 (continuous)
3.	ADJUST RATIO	30	300	SAME VALUE	4000	3000 2000 – 200
	MINOR SENSITIVITY			READ ABOVE		
4.	RATIO CALIBRATION	—	—	—	—	—
	SOURCE IN PLACE	—	—	—	—	—
5.	PANEL TEST	22.7	300	10 – 11	4000	3000 2000 – 200

GAMMA RAY CALIBRATION

1. ZERO
2. MAJOR SENSITIVITY
3. MINOR SENSITIVITY
4. BACKGROUND CANCEL
5. CABINET SOURCE IN PLACE

CALIBRATION RECORD

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