Schlumberger

GEOFRAME
PROCESSED
INTERPRETATION

DT SONIC
Reconstructed TT

*A Mark of Schlumberger

Using the following logs: BHC

COMPANY:	NORTHWEST NATURAL GAS		
WELL:	I.W. 24C-23-65		
FIELD:	CALVIN CREEK GAS STORAGE		
COUNTY:	COLUMBIA		
STATE:	OREGON		
COUNTRY:			
Date Logged:	7-MAY-2000	Date Processed:	18-MAY-2000
Well Location:	985.3' N & 1258.4' E FROM THE FROM THE SW CORNER OF 23		
Elevations:	KB:	DF:	GL:
API Number:	36-009-00350	Job Number:	

FOLD HERE 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 interpretation and we shall not, except in the case of gross or wilful 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.

Field Recording:	Location: SACRAMENTO	Software Version: 9C1-303	Engineer: M KHAN
Office Recording:	ICS Center:	Baseline:	Log Analyst:

Mud and Borehole Measurements:

Rm @ Measured Temperature:	@	BHT: 92degF	Bitsize: 7.875in
Rmf @ Measured Temperature:	@	Type Fluid in Hole:	DMA
Rmc @ Measured Temperature:	@	Mud Density: 8.8lbm/gal	

Remarks:

GR .ASCII_Load [A639481]
0 150
(gAPI)
C1 .CRC [A590512]

6 16
(in)

TT1 .SPLICE [A1050222]
1200 200
(us)

TT2 .SPLICE [A1050247]
1200 200
(us)

TT3 .SPLICE [A1050255]
1200 200
(us)

TT4 .SPLICE [A1050263]
1200 200
(us)

TT1 .SPLICE [A1050222]
1200 200
(us)

TT2 .SPLICE [A1050247]
1200 200
(us)

TT3 .SPLICE [A1050255]
1200 200
(us)

TT4 .SPLICE [A1050263]
1200 200
(us)

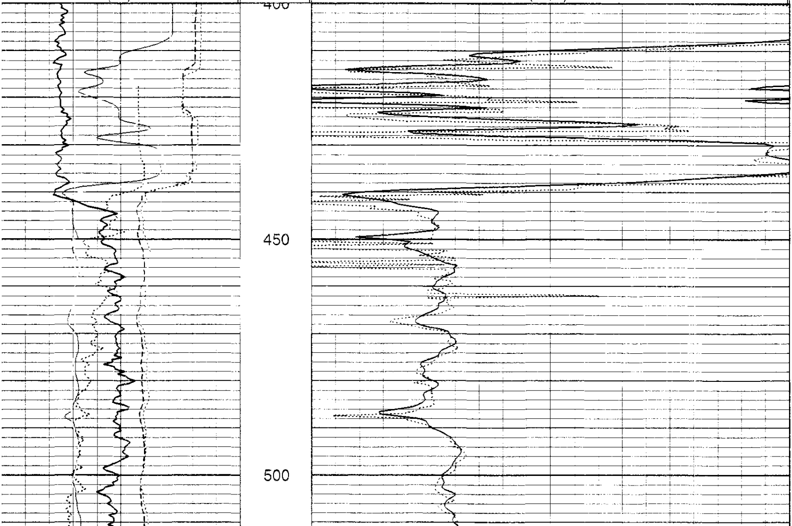
C1 .BASIC .FBSTA .018 [A
6 16
(in)

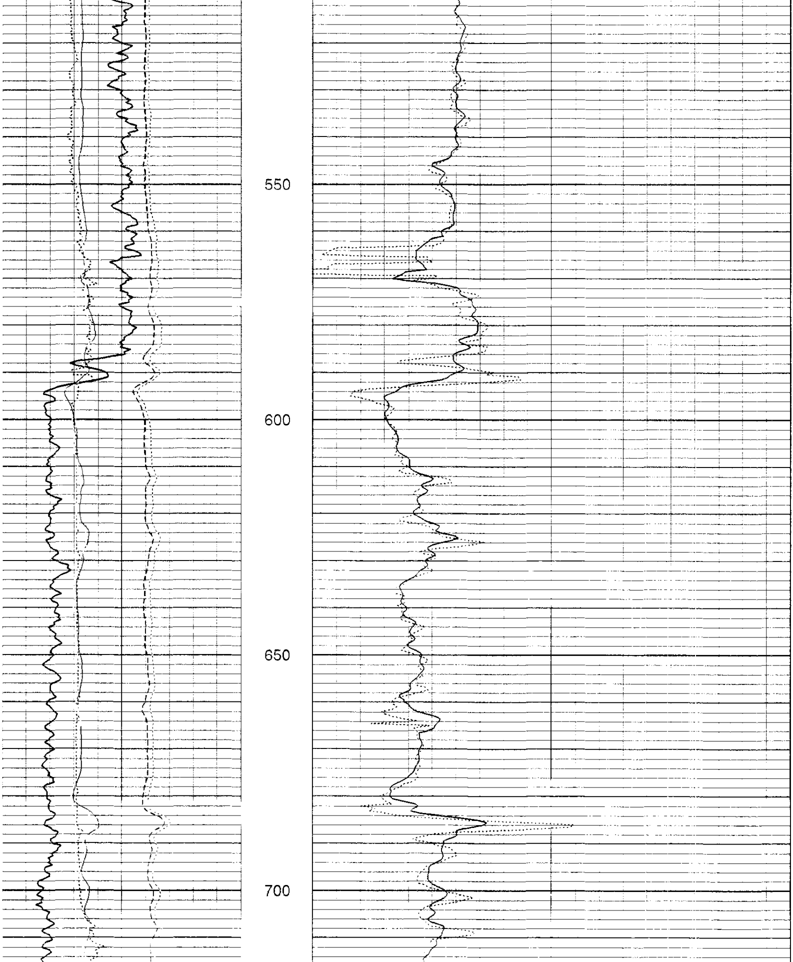
MD
1 : 240
ft

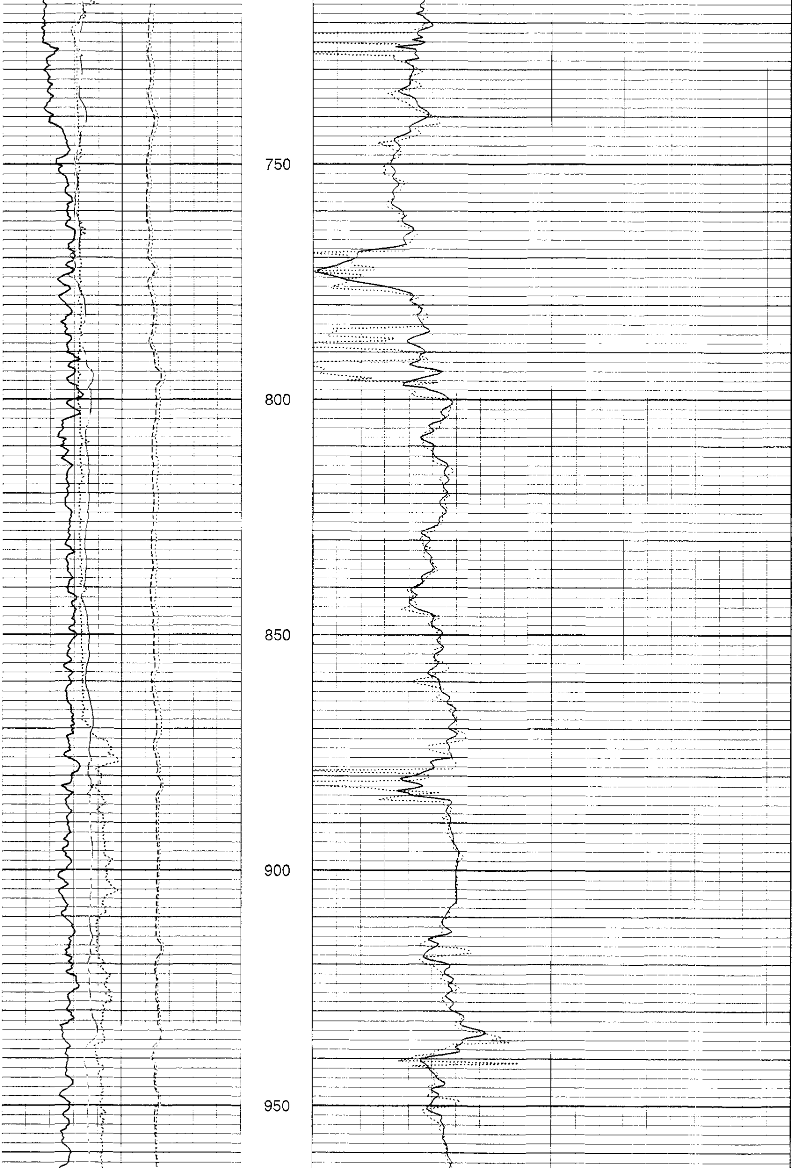
DT .ASCII_Load [A639547]
170 70
(us/ft)

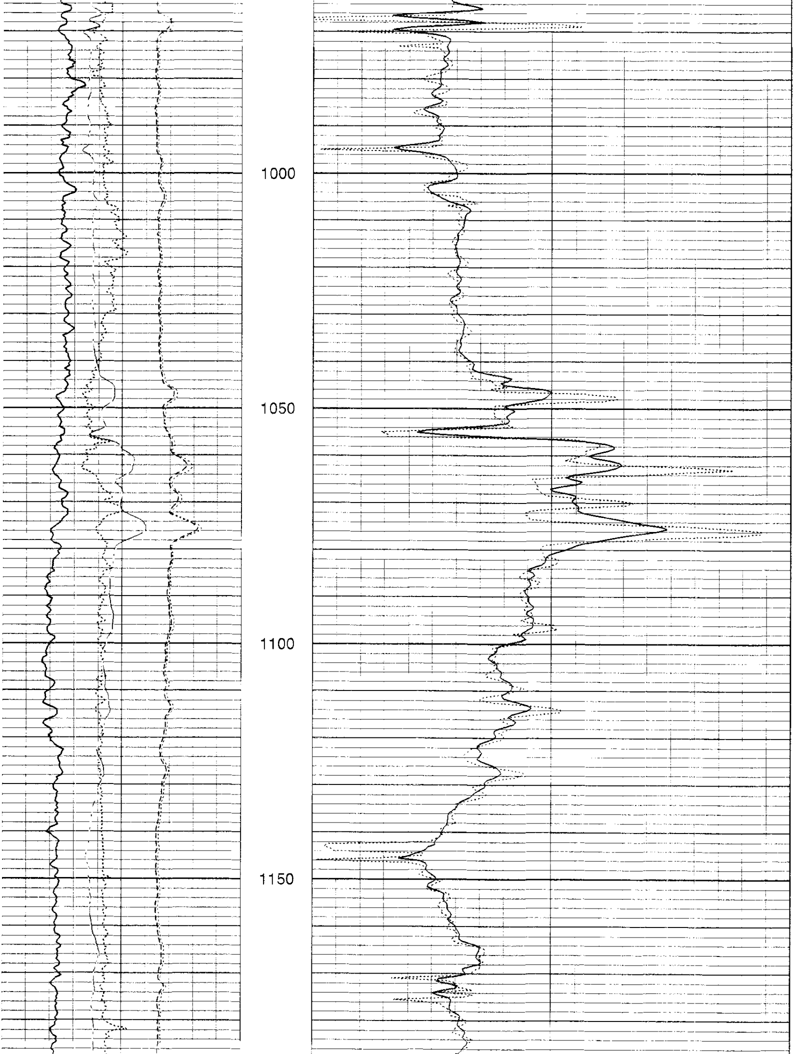
DT .DF [A1050294]
170 70
(us/ft)

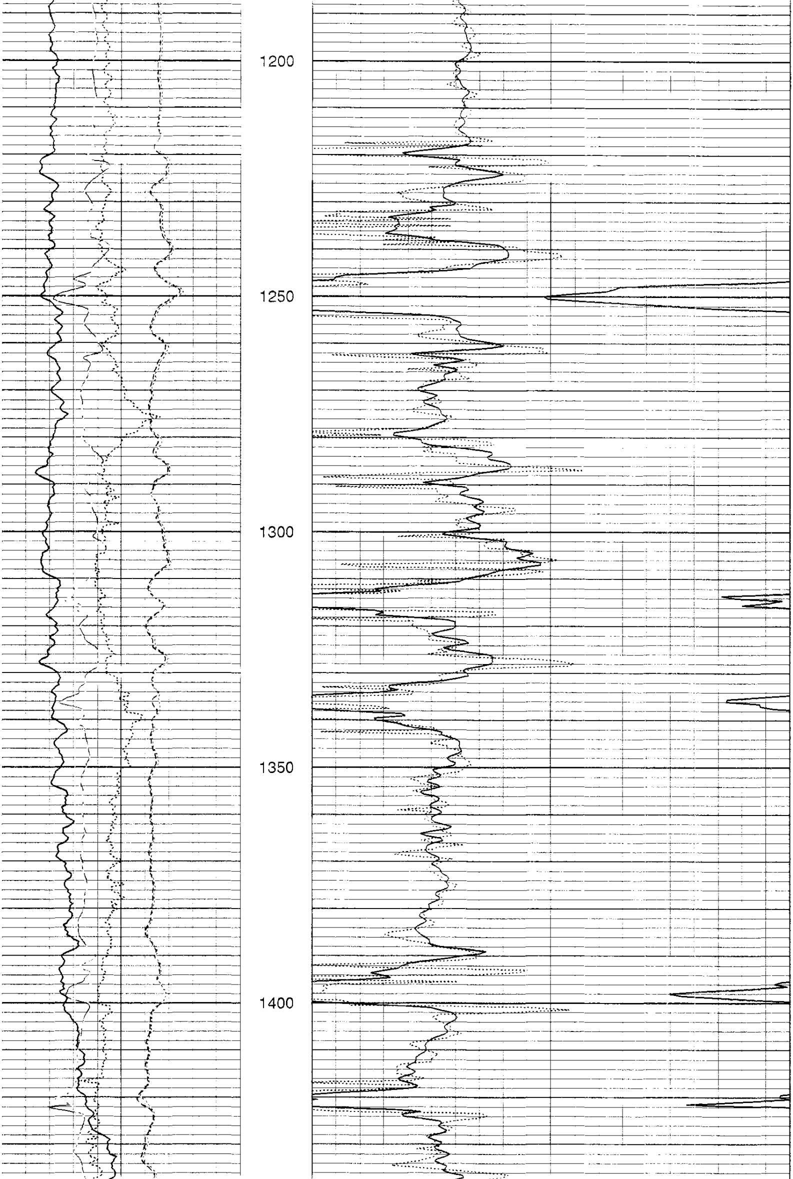
DT .BU
270 170
(us/ft)

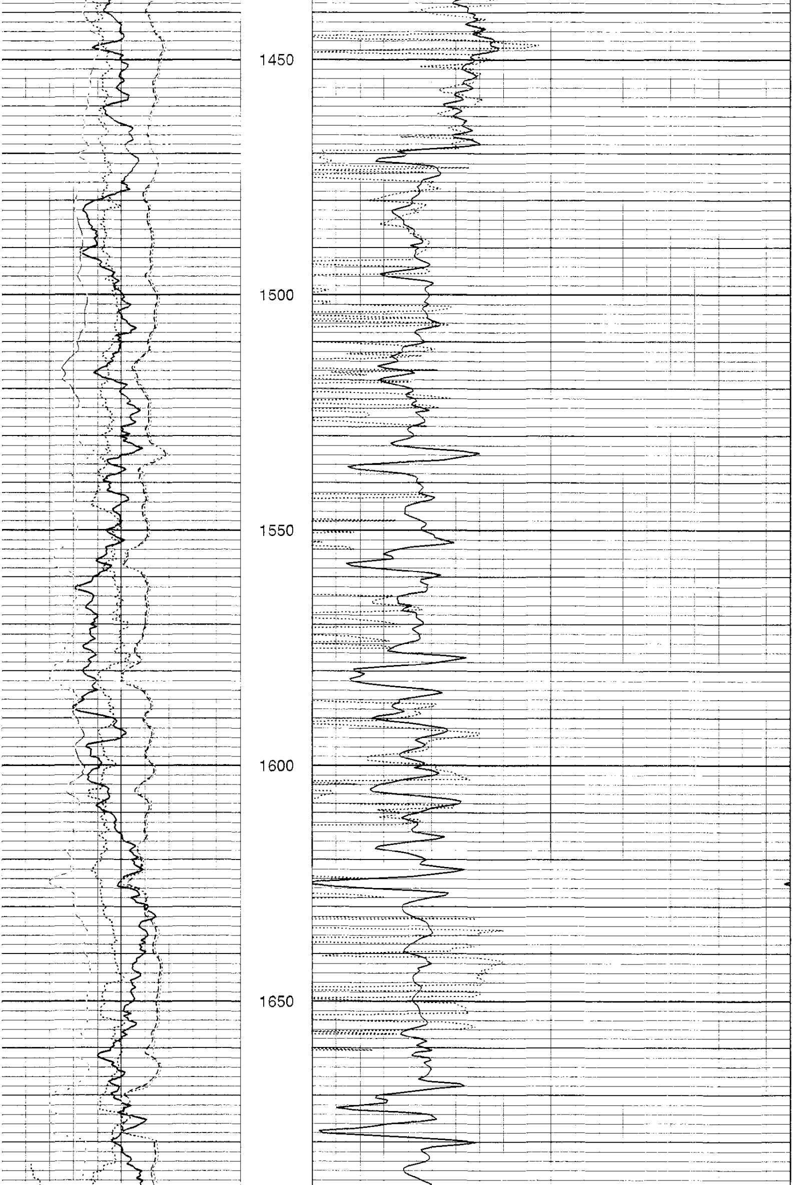


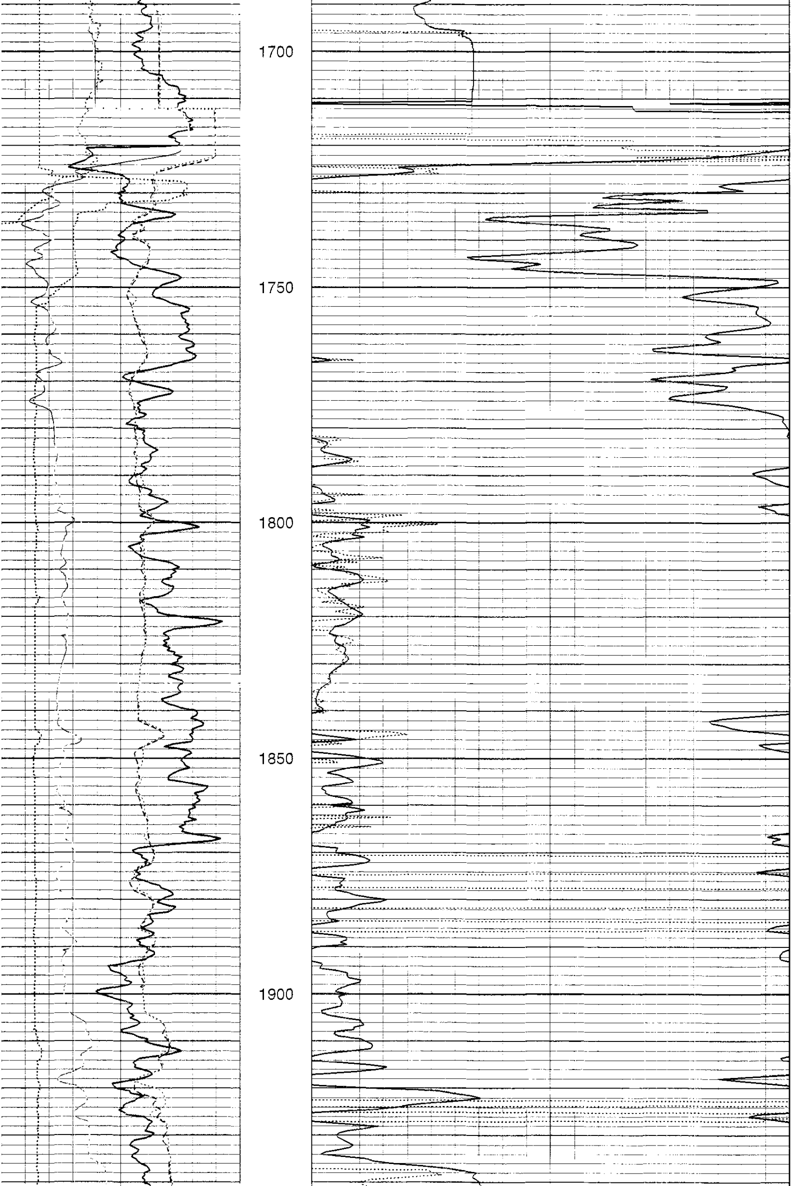


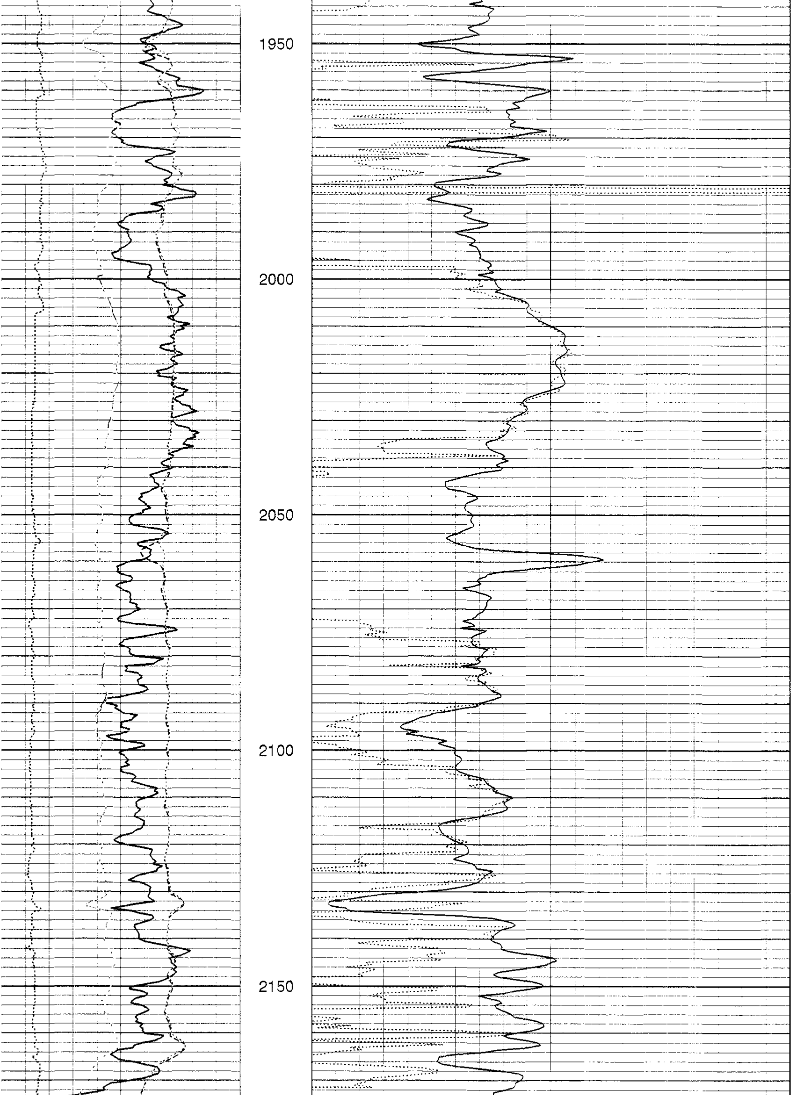


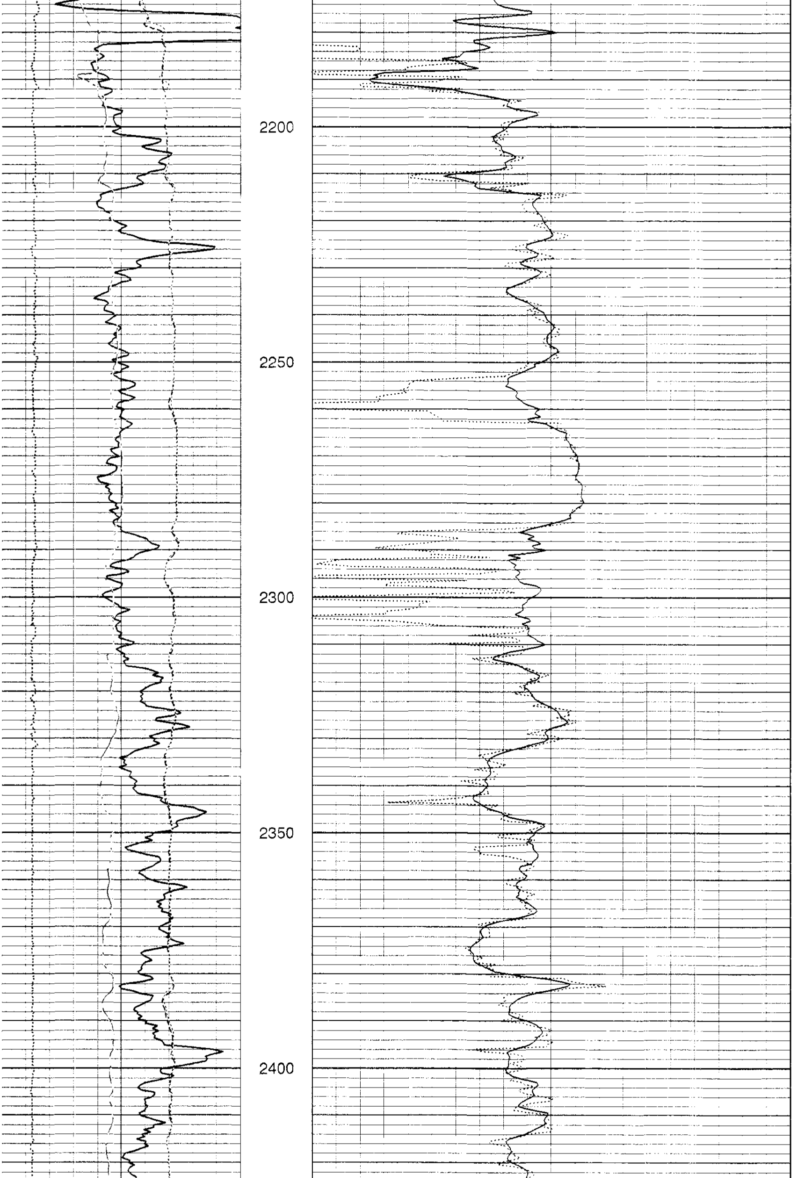


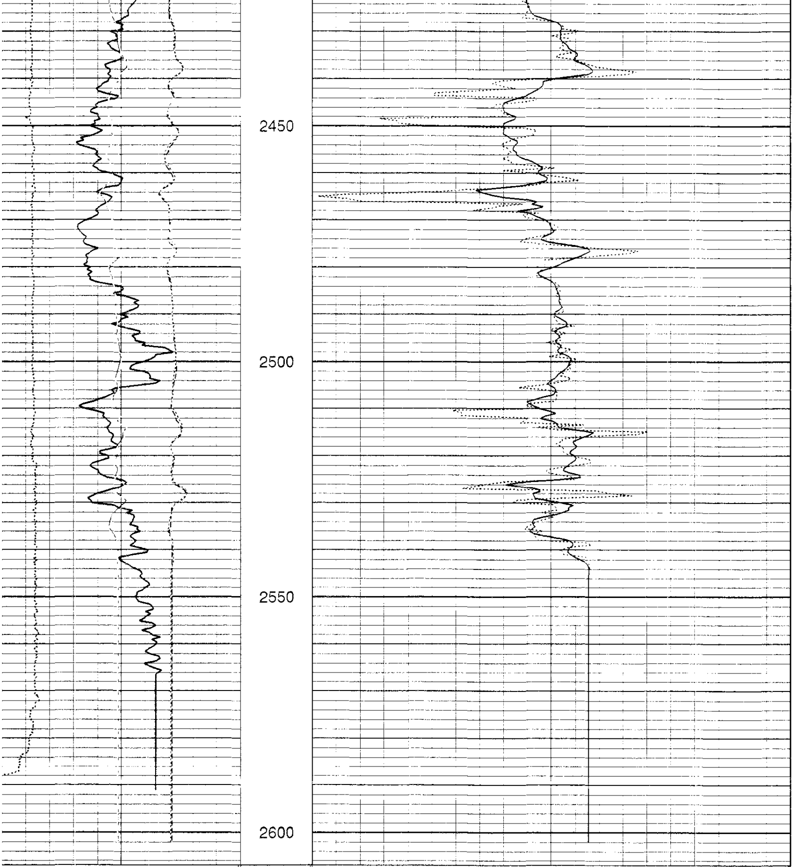












C1 .BASIC .FBSTA .018 [A 6 16 (in)	MD 1 : 240 ft	DT .BU 270 170 (us/ft)
TT4 .SPLICE [A1050263] 1200 200 (us)		DT .DF [A1050294] 170 70 (us/ft)
TT3 .SPLICE [A1050255] 1200 200 (us)		DT .ASCII_Load [A639547] 170 70 (us/ft)
TT2 .SPLICE [A1050247] 1200 200 (us)		
TT1 .SPLICE [A1050222]		

1200	(us)	200
	TT4 .SPLICE [A1050263]	
1200	(us)	200
	TT3 .SPLICE [A1050255]	
1200	(us)	200
	TT2 .SPLICE [A1050247]	
1200	(us)	200
	TT1 .SPLICE [A1050222]	
1200	(us)	200
	C1 .CRC [A590512]	
6	(in)	16
	GR ASCII_Load [A639481]	
0	(gAPI)	150

Schlumberger

Company:	NORTHWEST NATURAL GAS		
Well:	I.W. 24C-23-65		
FIELD:	CALVIN CREEK GAS STORAGE		
COUNTY:	COLUMBIA		
STATE:	OREGON		
Date Logged:	7-MAY-2000	Date Processed:	18-MAY-2000
Well Location:	985.3' N & 1258.4' E FROM THE FROM THE SW CORNER OF 23		
Elevations:	KB:	DF:	GL:
API Number:	36-009-00350	Job Number:	