HALLIBURTON
LOGGING SERVICES, INC.

2" = 100'

DUAL INDUCTION LATEROLOG COMPENSATED SONIC

TVD TVD TVD

COMPANY ______
WELL ______
FIELD ______
COUNTY ______ STATE ______

COMPANY NAHAMA & WEAGANT ENERGY COMPANY
WELL ~~BORROW PTT~~ CC #23-35-75
FIELD MIST
COUNTY COLUMBIA STATE OREGON

API No.: 36-~~0~~009-0027~~80~~ 6
Location: 261.4' NORTH & 2269.67' EAST OF THE WEST 1/4 CORNER OF:
Sec. 35 Twp. 7N Rge. 5W

Other Services:

Permanent Datum GL Elev. 1372.49'
Log Measured From KB 10' Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1382.49'
D.F. ______
G.L. 1372.49'

Date	8-10-91			
Run No.	ONE			
Depth—Driller	3374' MD			
Depth—Logger	3368' MD	3241' TVD		
Btm. Log Inter.	3366' MD	3239' TVD		
Top Log Inter.	CASING			
Casing—Driller	9.63" @1010'	MD @	@	@
Casing—Logger	1010' MD	990' TVD		
Bit Size	8.75"			
Type Fluid in Hole	GEL-POLYMER			
Dens. | Visc.	10.0 | 54	|	|	|
pH | Fluid Loss	8.0 | 5.8 ml	| ml	| ml	| ml
Source of Sample	FLOWLINE			
R_m @ Meas. Temp.	3.1 @ 63 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.7 @ 64 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	2.7 @ 66 °F	@ °F	@ °F	@ °F
Source R_{mf} R_{mc}	MEAS | MEAS	|	|	|
R_m @ BHT	2.0 @102 °F	@ °F	@ °F	@ °F
Time Since Circ.	3.25 HOURS			
Time On Bottom	15:12			
Max. Rec. Temp.	102 °F @	°F @	°F @	°F @
Equip. | Location	7674 | BKFD	|	|	|
Recorded By	POZAS			
Witnessed By	VAUGHAN	PINOTTI		

Part Number 26000

Fold Here

Service Ticket No.: L-6824 API Serial No.: PGM Version:

Change in Mud Type or Additional Samples

Date | Sample No.	|	|
Depth—Driller		
Type Fluid in Hole		
Dens. | Visc.	|	|
ph | Fluid Loss	| ml	|
Source of Sample		
R_m @ Meas. Temp.	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F
Source: R_{mf} | R_{mc}	|	|
R_m @ BHT	@ °F	@ °F
R_{mf} BHT	@ °F	@ °F
R_{mc} BHT	@ °F	@ °F

RESISTIVITY/RWA SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

COMPUTED FROM

a	m

RESISTIVITY EQUIPMENT DATA

Run No.	Tool Type and No.	Pad Type	Tool Position	Other
ONE	DIL #G-5492		FREE	

Borehole Corrections:
shallow medium deep

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No	ONE	Run No.	ONE	Run No.		Run No.	
Serial No.	G-2051	Serial No.	G-205	Serial No.		Serial No.	
Model No	BA	Model No.	BA	Model No.		Model No.	
Diameter	1.38"	No. of Cent.	2	Diameter		Diameter	
Detector Model No.	NA	Spacing	TOP	Log Type		Log Type	
Type	SCINT		BOTTOM	Source Type		Source Type	
Length	4.5'	LSA	☐ Yes ☐ No	Serial No.		Serial No.	
Distance to Source	NA	FWDA	☐ Yes ☐ No	Strength		Strength	

LOGGING DATA

GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run No.	Depths		Speed Ft./Min.	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
	From	To		L	R	L	R		L	R		L	R	
ONE	TD	CSG	45	0	150	175	75	55.6						

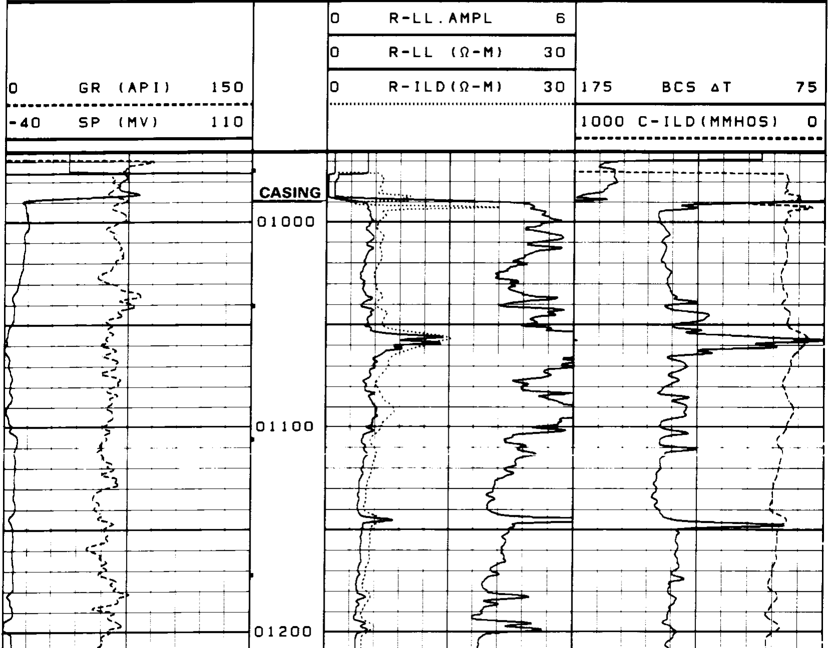
a = m = Δt_{sh} = Δt_{fl} = ρ_{fl} =

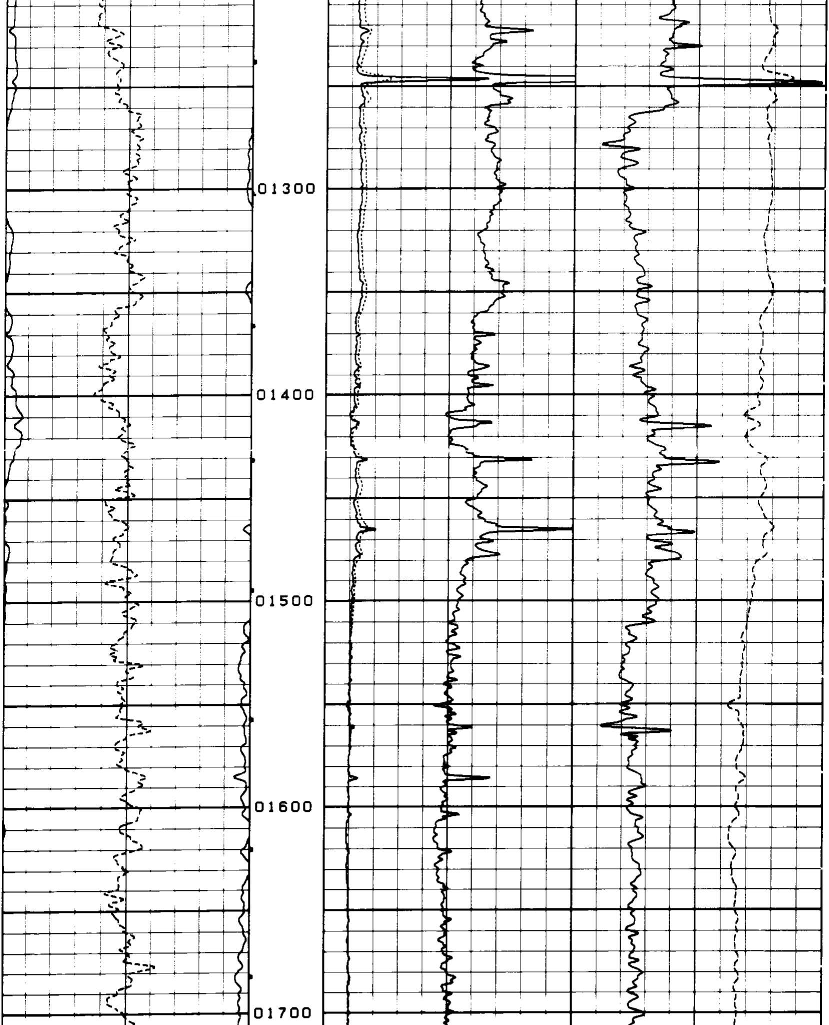
REMARKS: TAYLOR DRILLING
DUE TO TIGHT HOLE CONDITIONS, DID NOT RUN STANDOFFS. DISCUSSED
WITH CLIENT. SP SPIKE AT 2720' IS DUE TO TURNING OF POWER TO GR.

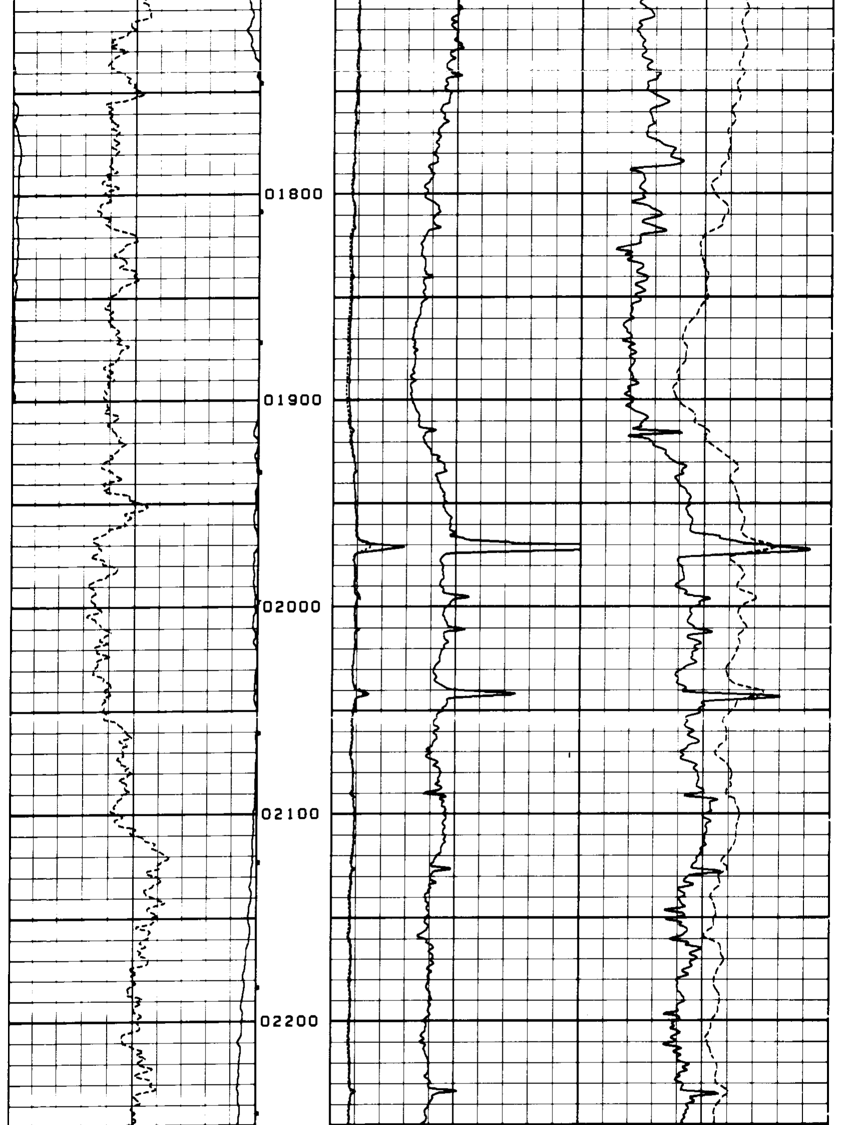
CASED HOLE PARAMETERS	
From:	To
Bit Size	
Csg. O.D	
Csg. Wt.	

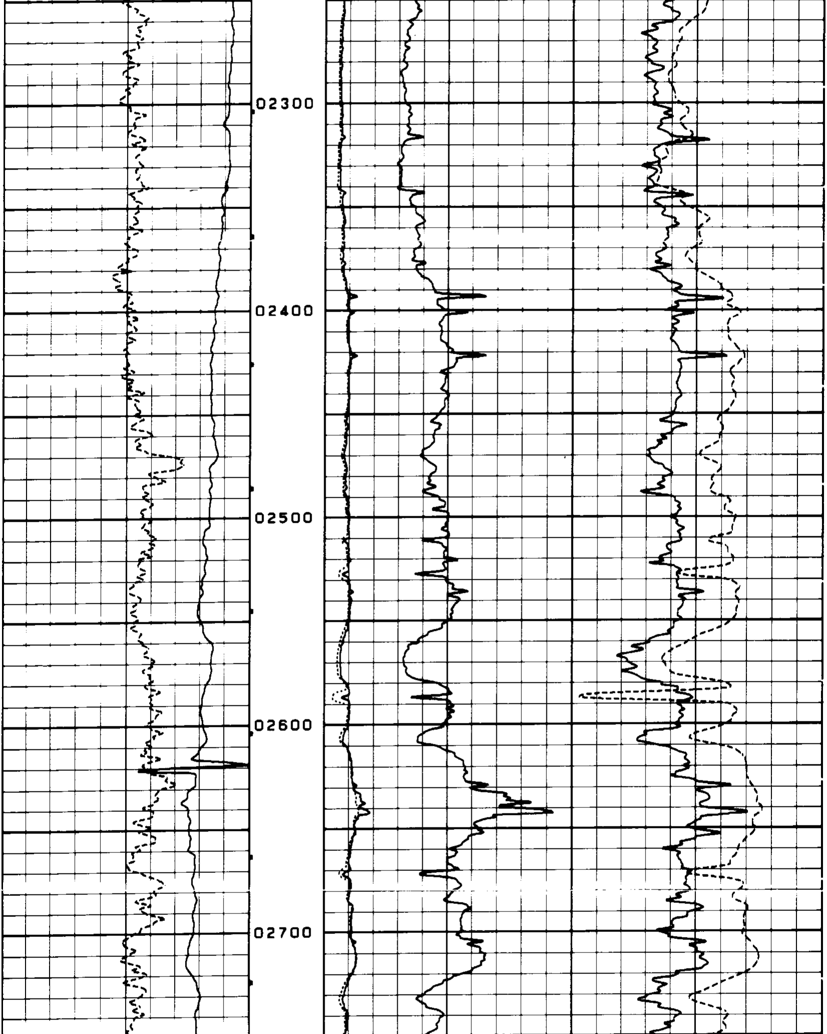
Halliburton Logging Services, Inc. does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Halliburton Logging Services, Inc. personnel or which may appear on the log or in any other form. Any user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

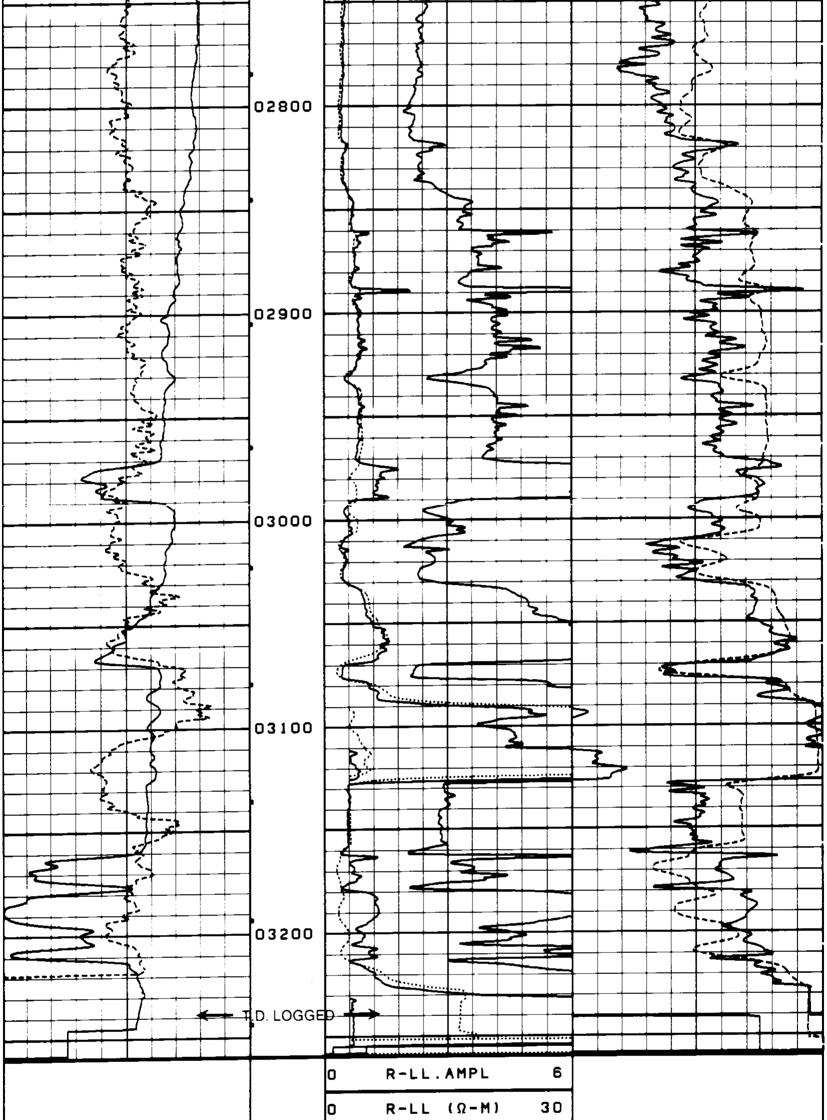
08-10-91 15:49 965.8 68245 0367-96 0 . 1











0 GR (API) 150	0 R-ILD(Ω-M) 30	175 BCS ΔT 75
-40 SP (MV) 110		1000 C-ILD(MMHOS) 0

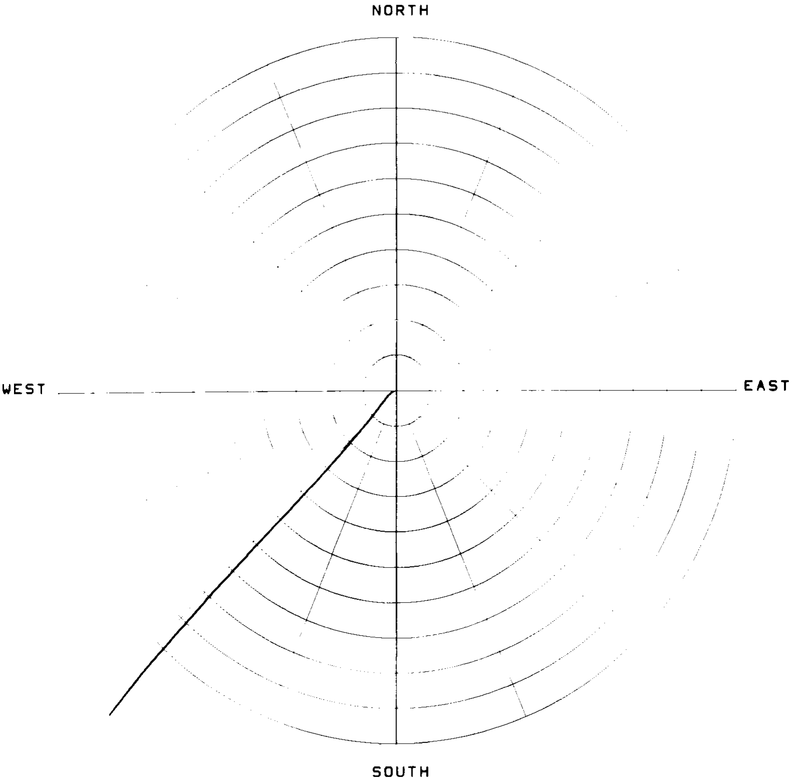
08-10-91 15:13 3258.3 68245 0308-99 0 1

00-00-00 00:00 0.0 0 0367-96 0 0

TVD COMPUTATION RESULTS

CALCULATION TYPE : ANGLE AVERAGE

MAGNETIC DECLINATION : 0.0 DEGREES



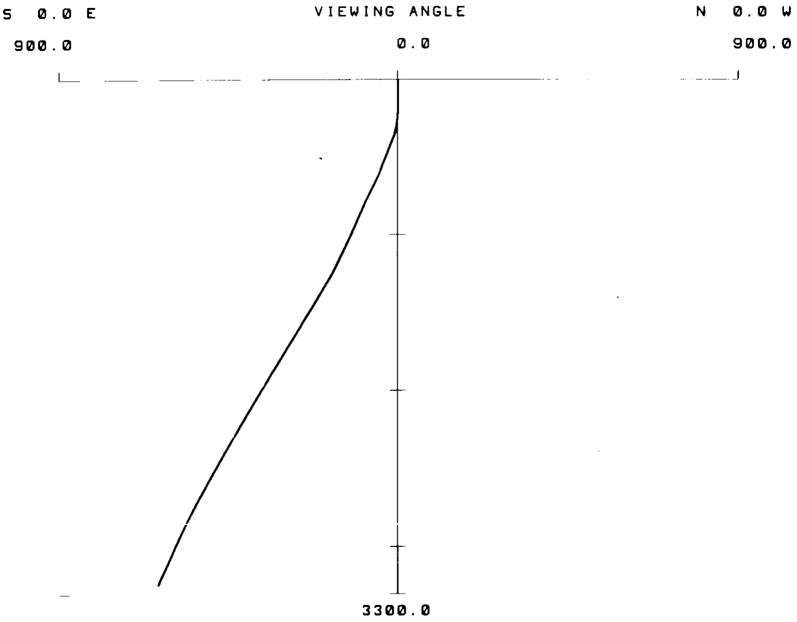
SCALE : 70.0 FEET PER DIVISION

00-00-00 00:00 0.0 0 0367-96 0 0

TVD COMPUTATION RESULTS

CALCULATION TYPE : ANGLE AVERAGE

MAGNETIC DECLINATION : 0.0 DEGREES



00-00-00 00:00 0.0 0 0367-96 0 0

TVD COMPUTATION RESULTS

CALCULATION TYPE : ANGLE AVERAGE

MAGNETIC DECLINATION : 0.0 DEGREES

STATION #	MEAS DEPTH FEET	TVD DEPTH FEET	INCLIN DEG	AZIMUTH DEG	NS FEET	EW FEET	DOGLEG SEVERITY /100 FT	CLOSURE FEET
1	0.0	0.0	0.00	0	0.0	0.0	0.00	0.0
2	45.0	45.0	0.00	0	0.0	0.0	0.01	0.0
3	141.0	140.9	2.00	260	-0.2	-1.6	2.08	1.6
4	232.0	231.7	5.25	252	-1.5	-7.1	3.61	7.3
5	292.0	291.3	7.00	235	-4.3	-12.8	4.17	13.5
6	353.0	351.7	8.50	219	-9.9	-18.8	4.29	21.2
7	625.0	617.6	15.75	221	-53.6	-55.5	2.67	77.2
8	812.0	798.2	14.25	221	-90.1	-87.2	0.80	125.4
9	1010.0	990.6	13.00	222	-125.0	-118.1	0.64	171.9
10	1219.0	1192.6	16.75	224	-164.2	-154.6	1.81	225.6
11	1280.0	1250.7	18.50	224	-177.4	-167.4	2.87	243.9
12	1483.0	1442.6	19.50	224	-224.9	-213.3	0.49	309.9
13	1698.0	1645.1	19.75	224	-276.8	-263.4	0.11	382.1
14	1946.0	1879.0	19.00	225	-335.4	-321.0	0.33	464.3
15	2162.0	2083.3	18.75	223	-385.6	-369.5	0.32	534.1
16	2411.0	2319.6	18.00	223	-443.0	-423.0	0.30	612.5
17	2784.0	2675.3	17.00	223	-525.0	-499.4	0.26	724.6
18	2789.0	2680.0	17.00	223	-526.0	-500.3	20.00	726.0
19	2962.0	2845.6	16.50	223	-562.4	-534.2	0.29	775.7
20	3374.0	3245.3	11.50	215	-639.8	-596.9	1.29	875.0