Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
NMSF - 078414

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
DAY B 2C

2. Name of Operator
AMOCO PRODUCTION COMPANY
Contact: MARY CORLEY
E-Mail: corleyml@bp.com

9. API Well No.
30-045-30705

3a. Address
P.O. BOX 3092
HOUSTON, TX 77253

3b. Phone No. (include area code)
Ph: 281.366.4491
Fx: 281.366.0700

10. Field and Pool, or Exploratory
BLANCO MESAVERDE

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 7 T29N R8W Mer NENE 1290FNL 1190FEL
36.44600 N Lat, 107.42600 W Lon

11. County or Parish, and State
SAN JUAN COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ APDCH
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On June 19, 2001, Amoco Production Company submitted for your approval an Application for Permit to Drill our Day Well # 1M into the Dakota and Mesaverde Pools and downhole commingle production.

Please note we are requesting the following amendments to our drilling and completion program:
1. Name and well no. change: from Day 1M to Day B #2C.
2. The well will be a single hole completion into the Mesaverde only as per the attached procedures.

SEP 2001
RECEIVED
OIL CON. DIV
DIST. 3

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #7042 verified by the BLM Well Information System
For AMOCO PRODUCTION COMPANY, sent to the Farmington
Committed to AFMSS for processing by Maurice Johnson on 09/10/2001 ()

Name *(Printed/Typed)* MARY CORLEY — Title AUTHORIZED REPRESENTATIVE

Signature — Date 09/07/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date 9/12/01

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

Cementing Program

Well Name:	Day 1M	Field:	Blanco Mesaverde / Basin Dakota
Location:	7-29N-8W, 1290 FNL,1190 FEL	API No.	
County:	San Juan	Well Flac	
State:	New Mexico	Formation:	Dakota MesaVerde
		KB Elev (est)	6221
		GL Elev. (est)	6207

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)
Surface	200	12.25	9.625	ST&C	Surface	NA	
Intermediate	3320	8.75	7	LT&C	Surface	NA	
Production -	5613	6.25	4.5	?	3220	NA	

Casing Properties: (No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface	9.625	32	H-40	3370	1400	254	0.0787	8.845
Intermediate	7	20	K-55	3740	2270	234	0.0405	6.456
Production -	4.5	11.6	J-55	5350	4960	154	0.0155	3.875

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight
0 - SCP	Water/Spud	8.6-9.2
SCP - ICP	Water/LSND	8.6-9.2
ICP - ICP2	Gas/Air Mist	NA
ICP2 - TD	LSND	8.6 - 9.2

Recommended Mud Properties Prio Cementing:

PV <20

YP <10

Fluid Loss<15

Cementing Program:

	Surface	Intermediate	Production
Excess %, Bit	100%	80	10
Excess %, Caliper	NA	NA	30
BHST (est deg. F)	60	120	160
Pipe Movement	NA	Rotate/Reciprocate	Rotate/Reciprocate
Rate, Max (bpm)	7	4	2
Rate Recommended (bpm)	6	4	2
Pressure, Max (psi)	200	2000	2000
Shoe Joint	40	80	40
Batch Mix	NA	NA	NA
Circulating prior cmtng (hr)	0.5	1.5	2
Time Between Stages, (hr)	NA	NA	NA
Special Instructions	1,6,7	1,6,8	2,4,6

1. Do not wash pumps and lines.
2. Wash pumps and lines.
3. Reverse out
4. Run Blend Test on Cement
5. Record Rate, Pressure, and Density on 3.5" disk
6. Confirm densitometer with pressurized mud scales
7. 1" cement to surface if cement is not circulated.
8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug.

Notes:

*Do not wash up on top of plug. Wash lines before displacing production cement job to minmize drillout.
*** Run TMD cased hole logs to identify pay; Perforating and CH logs can be run rigless.

Surface:

Preflush	20 bbl.	FreshWater

Cementing Program

Slurry 1	108 sx Class G Cement			125 cuft
TOC@Surface	+ 2% CaCl2 (accelerator)			
	0.25 #/sk Cellophane Flake (lost circulation additive)			0.3132 cuft/ft OH
	0.1% D46 antifoam			100 % excess

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	15.8	1.16	4.95

Casing Equipment:

9-5/8", 8R, ST&C
1 Guide Shoe
1 Top Wooden Plug
1 Autofill insert float valve
4 Centralizers
1 Stop Ring
1 Thread Lock Compound

Intermediate:

Fresh Water	20 bbl	fresh water	
Lead	256 sx Class "G" Cement		744 cuft
Slurry 1	+ 3% D79 extender		
TOC@Surface	+ 2% S1 Calcium Chloride		
	+1/4 #/sk. Cellophane Flake		
	+ 0.1% D46 antifoam'		
Tail	107 sx 50/50 Class "G"/Poz		135 cuft
Slurry 2	+ 2% gel (extender)		
500 ft fill	0.1% D46 antifoam		0.1503 cuft/ft OH
	+1/4 #/sk. Cellophane Flake		0.1746 cuft/ft csg ann
	+ 2% CaCl2 (accelerator)		80 % excess

Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	11.4	2.9	17.77
Slurry 2	13.5	1.27	5.72

Casing Equipment:

7", 8R, ST&C

1 Float Shoe (autofill with minimal LCM in mud)
1 Float Collar (autofill with minimal LCM in mud)
1 Stop Ring
10 Centralizers (one in middle of first joint, then every third collar)
2 Fluidmaster vane centalizers @ base of Ojo
7 Centalizers one every 4th joint from Ojo to base of surface casing
1 Top Rubber Plug
1 Thread Lock Compound

Production:

Fresh Water	10 bbl	CW100	
Lead	121 LiteCrete D961 / D124 / D154		259 cuft
Slurry 1	+ 0.03 gps D47 antifoam		
TOC@Surface	+ 0.5% D112 fluid loss		

Cementing Program

		+ 0.11% D65 TIC		
Tail		0 sx 50/50 Class "G"/Poz		0 cuft
Slurry 2		+ 5% D20 gel (extender)		+ 5 #/sk D24 gilsonite
	0 ft fill	+ 0.1% D46 antifoam		+ 0.15% D65 TIC
		+ 1/4 #/sk. Cellophane Flake		+ 0.1% D800 retarder
		+ 0.25% D167 Fluid Loss		
				0.1026 cuft/ft OH
Slurry Properties:	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)	10 % excess
				0.1169 cuft/ft csg ann
Slurry 1	9.5	2.14	6.38	
Slurry 2	13	1.44	6.5	Top of Mancos 5113

Casing Equipment: 4-1/2", 8R, ST&C

1 Float Shoe (autofill with minimal LCM in mud)
1 Float Collar (autofill with minimal LCM in mud)
1 Stop Ring
20 Centralizers (every third joint)

1 Top Rubber Plug
1 Thread Lock Compound

Note:

1. The job should be pumped at 2-3 bpm max rate. Do not exceed 3 bpm on displacement
2. Wash pump and lines before displacement. Slow to 1 bpm for the last 30 bbl of displacement.

AMOCO PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM

Prospect Name:	Day	**Well No:**	2C
Lease:	DAY B	**Surface Location:**	7-29N-8W, 1290 FNL,1190 FEL
County:	San Juan	**Field:**	Blanco Mesaverde
State:	New Mexico	**Bottom Location:**	7-29N-8W, 2500 FSL, 700 FEL
Date:	September 7, 2001		

OBJECTIVE: Drill 50' into the Mancos, set 41/2" production liner, Stimulate CH, MF and PL intervals

METHOD OF DRILLING

TYPE OF TOOLS	DEPTH OF DRILLING
Rotary	0 - TD

LOG PROGRAM

TYPE	DEPTH INVERAL
OPEN HOLE	
GR-Induction	TD to 7" shoe
Density/Neutron	TD to 7" shoe
CASED HOLE	
GR-CCL-TDT	TDT – TD to 7" shoe
CBL	Identify 4 ½" cement top

REMARKS:
- Please report any flares (magnitude & duration).

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Estimated GL: 6207 Estimated KB: 6221

MARKER		SUBSEA	MEAS. DEPTH
Ojo Alamo		4443	1922
Fruitland Coal	*	3663	2823
Pictured Cliffs	*	3364	3169
Lewis Shale	#	3320	3220
Cliff House	#	1774	4824
Menefee Shale	#	1616	4983
Point Lookout	#	1163	5436
Mancos		1036	5563
Greenhorn			
Bentonite Marker			
Two Wells	#		
Dakota MB	#		
Burro Canyon	*		
Morrison	*		
TOTAL DEPTH		986	5613

Probable completion interval * Possible Pay

SPECIAL TESTS

TYPE
None

REMARKS:

DRILL CUTTING SAMPLES

FREQUENCY	DEPTH
10 feet	Production hole

DRILLING TIME

FREQUENCY	DEPTH
Geolograph	0-TD

MUD PROGRAM:

Approx. Interval	Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 - 200	Spud	8.6-9.2			
200 - 3320	Water/LSND	8.6-9.2		<6	
3320 - 5613	Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore			

REMARKS:
(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	200	9 5/8"	H-40 ST&C	32#	12.25"	1
Intermediate 1	3320	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	5613	4 1/2"	J-55	11.6#	6.25"	3

REMARKS:
(1) Circulate Cement to Surface
(2) Set casing 100' into Lewis Shale
(3) Bring cement 100' above 7" shoe

CORING PROGRAM:
None

COMPLETION PROGRAM:
Rigless, 2-3 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:
Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by: Logging program reviewed by: N/A

PREPARED BY:	APPROVED:	DATE:	
HGJ/MNP		4 Sept 2001 Version 2.0	

Form 46 12-00 MNP

Amoco Production Company
BOP Pressure Testing Requirements

Well Name: Day B 2C
County: San Juan **State:** New Mexico

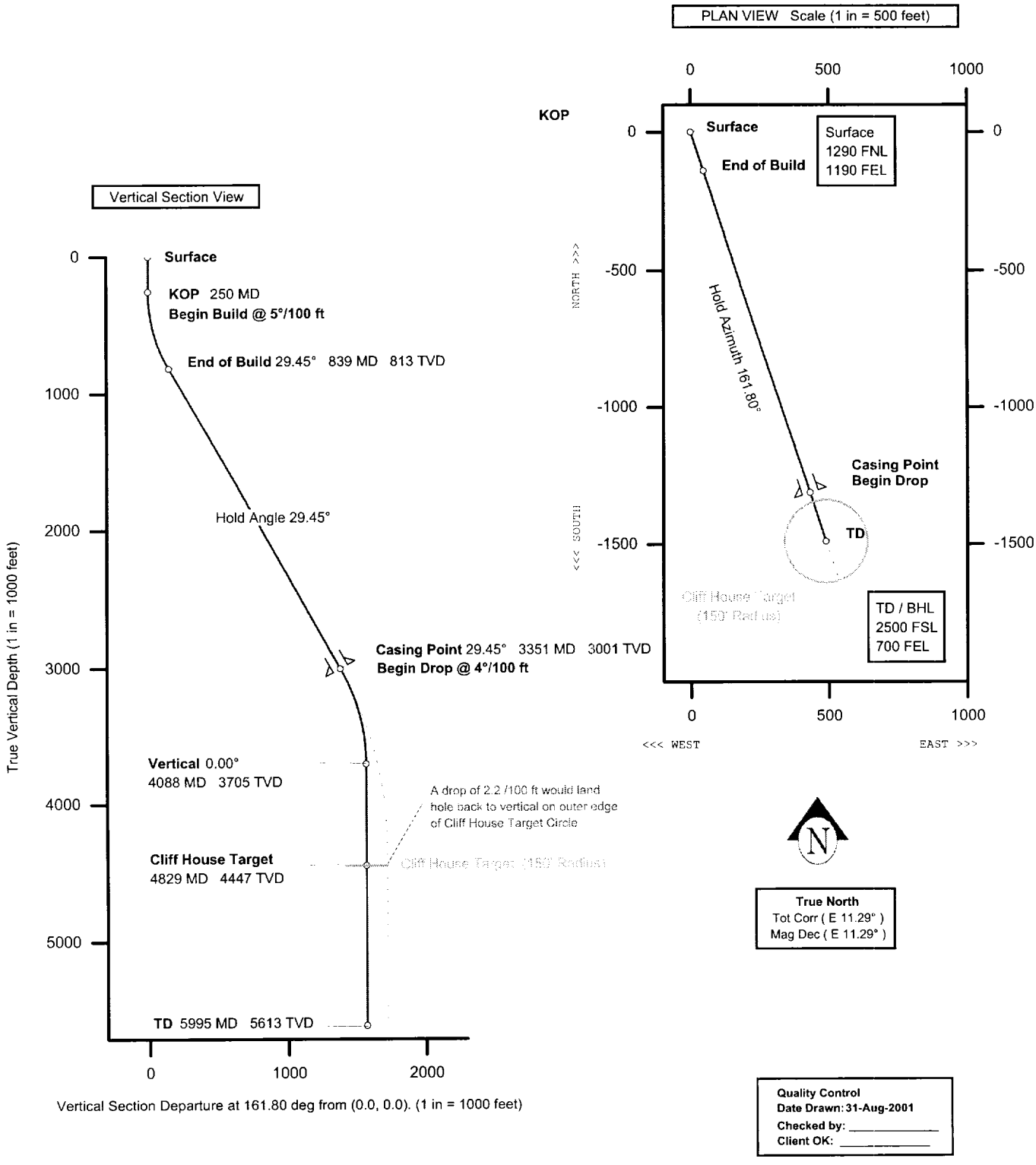
Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1779		
Fruitland Coal	2558		
PC	2857		
Lewis Shale	2901		
Cliff House	4447	500	0
Menefee Shale	4606		
Point Lookout	5059	600	0
Mancos	5186		

** Note: Determined using the following formula: ABHP – (.22*TVD) = ASP

Requested BOP Pressure Test Exception: 750 psi

Schlumberger BP

WELL	FIELD	STRUCTURE
Day B #2C	NM, San Juan	BP 7-T29N-R8W



Schlumberger

Proposed Well Profile

Report Date:	August 31, 2001	**Survey / DLS Computation Method:**	Minimum Curvature / Lubinski
Client:	BP	**Vertical Section Azimuth:**	161.800°
Field:	NM, San Juan	**Vertical Section Origin:**	N 0.000 ft, E 0.000 ft
Structure / Slot:	BP 7-T29N-R8W / Day B #2C	**TVD Reference Datum:**	
Well:	Day B #2C	**TVD Reference Elevation:**	0.0 ft relative to
Borehole:	New Borehole	**Sea Bed / Ground Level Elevation:**	0.000 ft relative to
UWI / API#:		**Magnetic Declination:**	11.291°
Survey Name / Date:	Day B #2C R0 31Aug01 / August 31, 2001	**Total Field Strength:**	51579.526 nT
Tort / AHD / DDI / ERD ratio:	58.904° / 1568.50 ft / 4.994 / 0.279	**Magnetic Dip:**	63.377°
Grid Coordinate System:	NAD83 New Mexico State Planes, Western Zone, US Feet	**Declination Date:**	August 31, 2001
Location Lat / Long:	N 36 31 0.000, W 108 23 0.001	**Magnetic Declination Model:**	BGGM 2000
Location Grid N/E Y/X:	N 2007835.000 ftUS, E 2561475.600 ftUS	**North Reference:**	True North
Grid Convergence Angle:	-0.32728780°	**Total Corr Mag North -> True North:**	+11.291°
Grid Scale Factor:	0.99994655	**Local Coordinates Referenced To:**	Well Head

Station ID	MD (ft)	Incl (°)	Azim (°)	TVD (ft)	VSec (ft)	N/-S (ft)	E/-W (ft)	Closure (ft)	at Azim (°)	DLS (°/100ft)	TF (°)
Surface	0.00	0.00	161.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	161.8MTF
KOP	250.00	0.00	161.8	250.00	0.00	0.00	0.00	0.00	0.00	0.00	161.8MTF
	300.00	2.50	161.8	299.98	1.09	-1.04	0.34	1.09	161.80	5.00	161.8MTF
	400.00	7.50	161.8	399.57	9.80	-9.31	3.06	9.80	161.80	5.00	0.0
	500.00	12.50	161.8	498.02	27.16	-25.80	8.49	27.16	161.80	5.00	0.0
	600.00	17.50	161.8	594.58	53.04	-50.38	16.57	53.04	161.80	5.00	0.0
	700.00	22.50	161.8	688.52	87.23	-82.86	27.25	87.23	161.80	5.00	0.0
	800.00	27.50	161.8	779.12	129.48	-123.00	40.45	129.48	161.80	5.00	0.0
End of Build	839.04	29.45	161.8	813.44	148.09	-140.68	46.26	148.09	161.80	5.00	0.0
Casing Point	3351.26	29.45	161.8	3001.00	1383.33	-1314.10	432.15	1383.33	161.80	0.00	0.0
Begin Drop	3351.37	29.45	161.8	3001.10	1383.39	-1314.15	432.17	1383.39	161.80	0.00	180.0

								at Azim (°)	DLS (°/100ft)	TF (°)
							8	161.80	4.00	180.0
							3	161.80	4.00	180.0
							8	161.80	4.00	180.0
							6	161.80	4.00	180.0
							1	161.80	4.00	180.0
							3	161.80	4.00	180.0
							2	161.80	4.00	161.8MTF
							0	161.80	4.00	161.8MTF
							0	161.80	0.00	161.8MTF
							0	161.80	0.00	0.0MTF