

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No. 1004-0135
Expires July 31, 1996

S

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

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

2. Name of Operator
Cimarex Energy Co. of Colorado

3a. Address
PO Box 140907; Irving, TX 75014-0907

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SHL 488 FSL & 2260 FWL 19-24S-26E
BHL 1500 FSL & 1000 FWL

AUG 19 2008

OCD-ARTESIA

3b. Phone No. (include area code)
972-401-3111

5. Lease Serial No.

LC-065347

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Estill AD Federal No. 4

9. API Well No.

30-015-35629

10. Field and Pool, or Exploratory Area

White City; Penn (Gas)

11. County or Parish, State

Eddy 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	☒ Other <u>Change BHL, Change Casing</u>
	☐ 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, included estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 recompleat 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.)

Instead of completing the Estill AD Fed #4 horizontally in the Morrow zone, as permitted, Cimarex would instead like to complete the well horizontally in the **Cisco-Canyon** zone as shown in the Drilling Plan below:

Surface: Drill 17½" hole to 375' with fresh water and set 13¾" 48# H-40 ST&C @ 375.' Cement with 500 sx Class C + 2% CaCl₂ (wt 14.8, yld 1.34). Circulate to surface.

Intermediate: Drill 12½" hole to 2300' with 10.0 ppg brine water. Set 9½" 40# J55 LTC @ 2,300.' Cement with Lead 600 sx Class C Light + 0.25# Flocele + 1# Gilsonite + 6% Gel + 12% Salt (wt 12.4, yld 2.37) and Tail 400 sx Calss C Neat + 2% CaCl₂ (wt 14.8, yld 1.34). Circulate to surface.

Production: Drill 7½" hole through curve with 9.0 - 9.2# Cut Brine to KOP @ 9770,' through to EOC @ 10226,' and then horizontally in the **Cisco-Canyon** zone to TD @ MD 12127' and TVD 10060.' Set 5½" 17# P110 LTC @ 12,127' MD. Cement with Lead 620 sx Interfill H + 0.3% HR-601 + 5# Gilsonite + 0.125# Poly-E-Flake (wt 11.9, yld 2.47) and Tail 480 sx Super H + 0.5% Halad ® 344 + 0.25% D-Air 3000 + 0.4% CFR-3 + 1# Salt + 5# Gilsonite + 0.125# Poly-E-Flake + 0.35% HR-7 (wt 13.2, yld 1.61). Circulate to surface. *Additional cement may be needed.*

New BHL: 1980 FSL & 660 FWL

ACCEPTED FOR RECORD

Please see attachments: Revised C-102, Revised Preliminary Directional Survey, Revised Rig Diagram

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Natalie Krueger

Signature

Natalie Krueger

Title

Regulatory Analyst

Date

June 19, 2008

Gerry Guye, Deputy Field Inspector
NMOCD-District II ARTESIA

APPROVED

AUG 15 2008

Approved by

Title

Office

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.

WESLEY W. INGRAM
PETROLEUM ENGINEER

Title 18 U.S.C. Section 1001, makes 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.

(Instructions on reverse)

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-35629	Pool Code 87280	Pool Name WHITE CITY; PENN (GAS)
Property Code	Property Name ESTILL AD FEDERAL	Well Number 4
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3463'

Surface Location

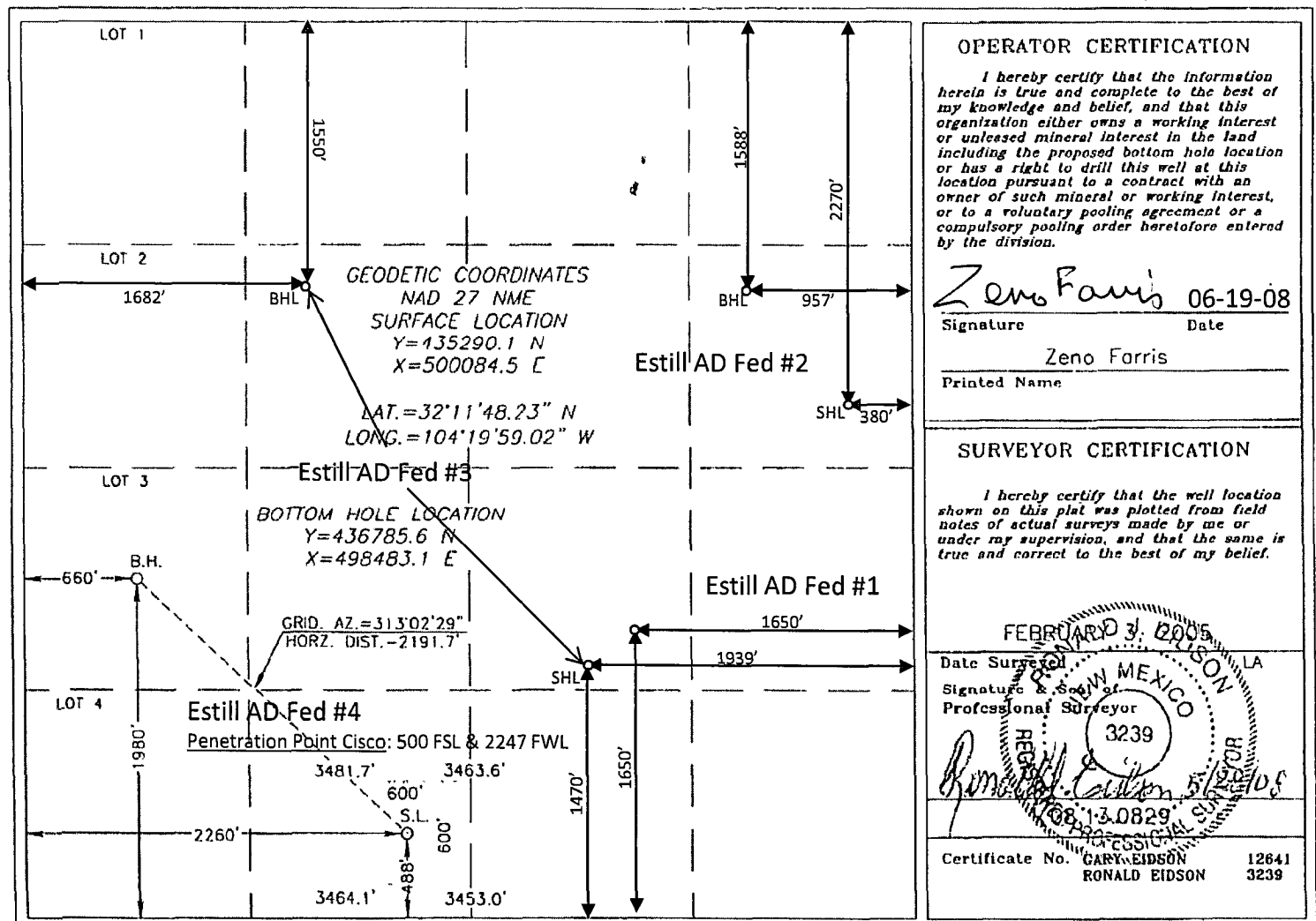
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	19	24-S	26-E		488	SOUTH	2260	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
3	19	24-S	26-E		1980	SOUTH	660	WEST	EDDY

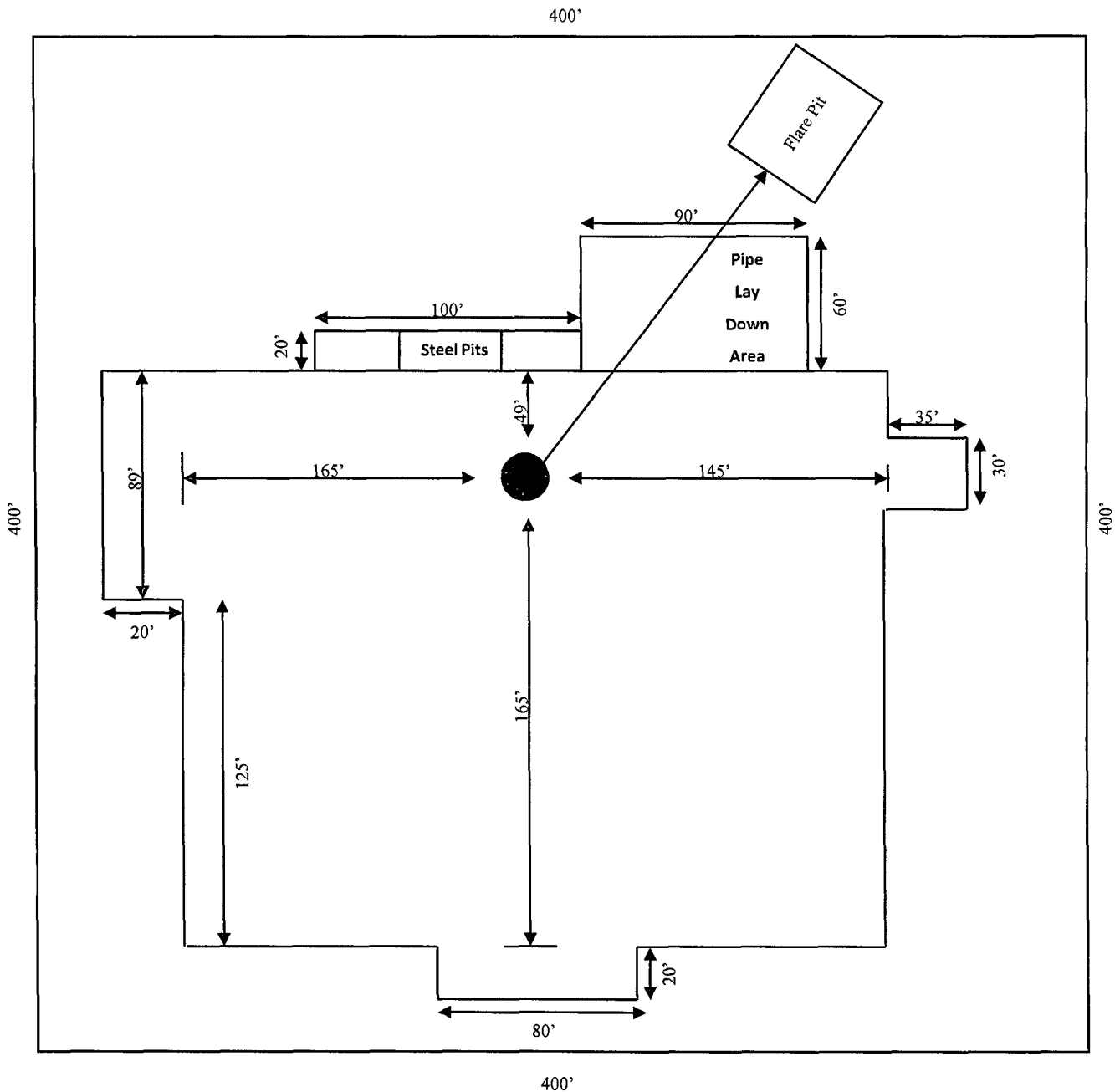
Dedicated Acres 6.38.08	Joint or Infill Y	Consolidation Code	Order No. NSL Pending
----------------------------	----------------------	--------------------	--------------------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Patterson Rig 80

Cimarex Energy Co. of Colorado



Revised Rig Layout
Estill AD Federal No. 4
Cimarex Energy Co. of Colorado
19-245-26E
SHL 488 FSL & 2260 FWL
BHL 1980 FSL & 660 FWL
Eddy County, NM



Planned Wellpath Report

Preliminary

Page 1 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 4 SHL
Area	Eddy County, NM	Well	No. 4
Field	(Estill) Sec 19, T24S, R26E	Wellbore	No. 4 PWB
Facility	Estill AD Fed No. 4		

REPORT SETUP INFORMATION

Projection System	NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Victor Hernandez
Scale	0.999909	Report Generated	6/17/2008 at 9:29:14 AM
Convergence at slot	0.00° East	Database/Source file	WA_Midland/No. 4 _PWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	500084.50	435290.10	32°11'48.226"N	104°19'59.017"W
Facility Reference Pt			500084.50	435290.10	32°11'48.226"N	104°19'59.017"W
Field Reference Pt			500084.50	435290.10	32°11'48.226"N	104°19'59.017"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 4 SHL (RT) to Facility Vertical Datum	18.00ft
Horizontal Reference Pt	Facility Center	Rig on No. 4 SHL (RT) to Mean Sea Level	3481.00ft
Vertical Reference Pt	Rig on No. 4 SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 4 SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	313.04°



Planned Wellpath Report

Preliminary
Page 2 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 4 SHL
Area	Eddy County, NM	Well	No. 4:
Field	(Estill) Sec 19, T24S, R26E	Wellbore	No. 4: PWB
Facility	Estill AD Fed No. 4		

WELLPATH DATA (27 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	DLS [°/100ft]	Comments
0.00	0.000	313.042	0.00	0.00	0.00	0.00	0.00	Tie On
9770.00	0.000	313.042	9770.00	0.00	0.00	0.00	0.00	KOP
9870.00†	19.757	313.042	9868.03	17.07	11.65	-12.48	19.76	
9970.00†	39.514	313.042	9954.52	66.28	45.23	-48.44	19.76	
10070.00†	59.271	313.042	10019.28	141.82	96.80	-103.65	19.76	
10170.00†	79.029	313.042	10054.70	234.81	160.26	-171.61	19.76	
10225.53	90.000	313.042	10060.00	290.00	197.93	-211.95	19.76	EOC
10270.00†	90.000	313.042	10060.00	334.47	228.28	-244.45	0.00	
10370.00†	90.000	313.042	10060.00	434.47	296.54	-317.54	0.00	
10470.00†	90.000	313.042	10060.00	534.47	364.79	-390.62	0.00	
10570.00†	90.000	313.042	10060.00	634.47	433.04	-463.71	0.00	
10670.00†	90.000	313.042	10060.00	734.47	501.30	-536.79	0.00	
10770.00†	90.000	313.042	10060.00	834.47	569.55	-609.88	0.00	
10870.00†	90.000	313.042	10060.00	934.47	637.80	-682.97	0.00	
10970.00†	90.000	313.042	10060.00	1034.47	706.05	-756.05	0.00	
11070.00†	90.000	313.042	10060.00	1134.47	774.31	-829.14	0.00	
11170.00†	90.000	313.042	10060.00	1234.47	842.56	-902.22	0.00	
11270.00†	90.000	313.042	10060.00	1334.47	910.81	-975.31	0.00	
11370.00†	90.000	313.042	10060.00	1434.47	979.07	-1048.40	0.00	
11470.00†	90.000	313.042	10060.00	1534.47	1047.32	-1121.48	0.00	
11570.00†	90.000	313.042	10060.00	1634.47	1115.57	-1194.57	0.00	
11670.00†	90.000	313.042	10060.00	1734.47	1183.82	-1267.65	0.00	
11770.00†	90.000	313.042	10060.00	1834.47	1252.08	-1340.74	0.00	
11870.00†	90.000	313.042	10060.00	1934.47	1320.33	-1413.83	0.00	
11970.00†	90.000	313.042	10060.00	2034.47	1388.58	-1486.91	0.00	
12070.00†	90.000	313.042	10060.00	2134.47	1456.83	-1560.00	0.00	
12126.85	90.000	313.042	10060.00 ¹	2191.32	1495.64	-1601.55	0.00	No. 4 BHL



Planned Wellpath Report

Preliminary

Page 3 of 3



INTEQ

REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co. of Colorado	Slot	No. 4 SHL
Area	Eddy County, NM	Well	No. 4
Field	(Estill) Sec 19, T24S, R26E	Wellbore	No. 4 PWB
Facility	Estill AD Fed No. 4		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 4 BHL	12126.85	10060.00	1495.64	-1601.55	498483.10	436785.60	32°12'03.026"N	104°20'17.655"W	point

SURVEY PROGRAM Ref Wellbore: No. 4H PWB Ref Wellpath: Preliminary

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
18.00	12126.85	NaviTrak (Standard)		No. 4 PWB

BAKER
HUGHES
INTEQ



Cimarex Energy Co. of Colorado

Location: Eddy County, NM
Field: (Estill) Sec 19, T24S, R26E
Facility: Estill AD Fed No. 4

Slot: No. 4 SHL
Well: No. 4,
Wellbore: No. 4, PWB



Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	0.00	0.000	313.042	0.00	0.00	0.00	0.00	0.00
KOP	9770.00	0.000	313.042	9770.00	0.00	0.00	0.00	0.00
EOC	10225.53	90.000	313.042	10060.00	197.93	-211.95	19.76	290.00
No. 4 BHL	12126.85	90.000	313.042	10060.00	1495.64	-1601.55	0.00	2191.32

