



MAR 31 2008
OCD-ARTESIA

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

(432) 686-3642 Office
(432) 770-0602 Cell
Donny_Glanton@eogresources.com

3/28/2008

OCD-Artesia
1301 W. Grand Avenue
Artesia, NM 88210

Re: **BOW RIVER 28 STATE 1H** 30-015-36244
BOW RIVER 28 STATE 2H 30-015-36243

As per the submittal comments of the C-101 (Electronic Permitting Application) for the above captioned well, please find the following additional information submitted for your review and processing.

- Well Plat
- Detailed Casing
- Mud
- Cement
- Drilling Plan
- H₂S Letter

Should you have any additional questions, please feel to give me a call.

Thanks and best regards.

Very truly yours,

Donny G. Glanton
Sr. Lease Operations ROW Representative

Accepted for Record
REMOVED

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 & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

MAR 31 2008
OCD-ARTESIA
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Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease- 4 Copies
Fee Lease- 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36243	Pool Code 97415	Pool Name Four Mile Draw; Wolfcamp (G)
Property Code 37084	Property Name BOW RIVER "28" STATE	Well Number 1H
OGRID No. 7377	Operator Name EOG RESOURCES INC.	Elevation 3975'

Surface Location

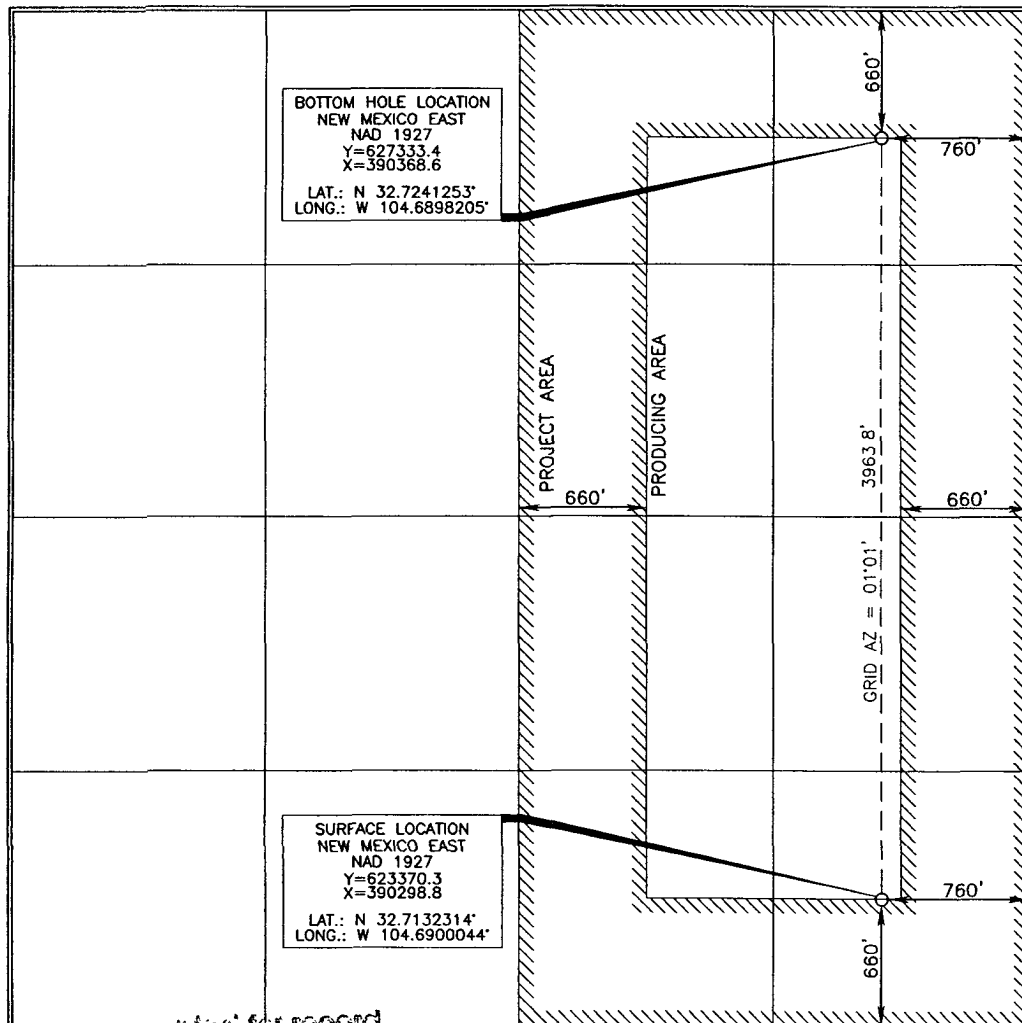
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	28	18 SOUTH	23 EAST, N.M.P.M.		660'	SOUTH	760'	EAST	EDDY

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
A	28	18 SOUTH	23 EAST, N.M.P.M.		660'	NORTH	760'	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Donny G. Glanton 3/11/08
Signature Date

Donny G. Glanton
Printed Name

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

15079
FEBRUARY 7, 2008
Date of Survey

Signature and Seal of Professional Surveyor

Terry J. Paul 2/11/2008
Certificate Number 15079

WO# 080207WL-c (KA)

Accepted for record
RMOC

Permit Information:

Well Name: Bow River 28 State #1H

Location:

SL 660' FSL & 760' FEL, Section 28, T-18-S, R-23-E, Eddy Co., N.M.

BHL 660' FNL & 760' FEL, Section 28, T-18-S, R-23-E, Eddy Co., N.M.

Casing Program:

Casing	Setting Depth	Hole Size	Casing Size	Casing Weight	Casing Grade	Desired TOC
Surface	1,200'	12-1/4"	8-5/8"	32#	J-55	Surface
Production	8,308'	7-7/8"	5 1/2"	17#	N-80	Surface

Cement Program:

Depth	No. Sacks	Slurries:
1,200'	345	Lead: 35:65 Poz C + 4% Bentonite+ 0.005 gps FP-6L + 0.005 pps Static Free + 5 pps LCM-1 + 5% NaCl + 5% MPA-5 + 0.8% SMS
	400	Tail: Class C + 0.005 gps FP-6L + 0.005 pps Static Free + 0.125 pps CelloFlake
8,308'	630	Lead: 50:50 Poz:Class C + 0.005 gps FP-6L + 10% Bentonite + 0.005 pps Static Free + 0.125 pps CelloFlake
	745	Tail: 50:50 Poz:Class C + 2% Bentonite + 0.005 gps FP-6L + 0.005 pps Static Free + 5% NaCl + 0.3% FL-2A + 0.2% CD-32 + 0.05% R-3

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,200'	Fresh - Gel	8.6-8.8	28-34	N/c
1,200' – 4,300'	Cut Brine	8.8-9.2	28-34	N/c
4,300' – 5,000'	Cut Brine	8.8-9.2	28-34	10-15
4,068' – 8,308'	Polymer (Lateral)	9.0-9.4	40-45	10-25

Accepted for record
NMOCD



EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702
(432) 686-3600

March 24, 2008

State of New Mexico Energy, Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

To Whom It May Concern:

I am writing to request a waiver for the inclusion of an H₂S Contingency Plan for the Bow River 28 State #1H. The current plan is to complete this well in the Wolfcamp, which is sweet, and I do not anticipate encountering any H₂S bearing formations during drilling operations.

Sincerely,



Jason LaGrega
Drilling Engineer

Accepted for record
NMOCB

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Thames
Site: Bow River 28 State #1H
Well: Bow River 28 State #1H
Wellbore: Bow River 28 State #1H
Design: Original Plan

Local Co-ordinate Reference: Well Bow River 28 State #1H
TVD Reference: WELL @ 3994.00ft (Original Well Elev)
MD Reference: WELL @ 3994.00ft (Original Well Elev)
North Reference: Grd
Survey Calculation Method: Minimum Curvature

Project: Thames
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001
System Datum: Ground Level

Site: Bow River 28 State #1H
Site Position:
From: Map
Position Uncertainty: 0 00 ft
Northing: 623,370.30 ft
Easting: 390,298.80 ft
Slot Radius: "
Latitude: 32° 42' 47.645 N
Longitude: 104° 41' 24.006 W
Grid Convergence: -0 19 ?

Well: Bow River 28 State #1H
Well Position
+N/-S 0 00 ft
+E/-W 0.00 ft
Position Uncertainty 0.00 ft
Northing: 623,370.30 ft
Easting: 390,298.80 ft
Wellhead Elevation: ft
Latitude: 32° 42' 47.645 N
Longitude: 104° 41' 24.006 W
Ground Level: 3,975.00 ft

Wellbore: Bow River 28 State #1H
Magnetics
Model Name IGRF2005
Sample Date 3/28/2008
Declination (?) 8.50
Dip Angle (?) 60.50
Field Strength (nT) 49,052

Design: Original Plan
Audit Notes:
Version:
Phase: PROTOTYPE
Tie On Depth: 0 00
Vertical Section:
Depth From (TVD) 0.00
+N/-S (ft) 0.00
+E/-W (ft) 0.00
Direction (?) 1 01

Plan Sections										
Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)	TFO (?)	Target
0 00	0 00	0 00	0 00	0 00	0 00	0.00	0 00	0 00	0 00	
4,068.00	0.00	0 00	4,068 00	0.00	0 00	0.00	0.00	0 00	0.00	
4,825 12	90.00	1 01	4,550 00	481.93	8.50	11.89	11 89	0.00	1.01	
5,825 12	90 00	1 01	4,550.00	1,481 77	26.12	0.00	0.00	0 00	0 00	
5,892.19	92 01	1.01	4,548 82	1,548 81	27 30	3.00	3 00	0.00	-0 05	
8,307.95	92.01	1 01	4,464.01	3,962.71	69.79	0.00	0.00	0 00	0 00	
8,308 35	92 00	1 01	4,464 00	3,963.11	69 80	3 00	-2 97	0 40	172 36	BHL (Bow #1H)

Accepted for record
IN/OC

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Thames
Site: Bow River 28 State #1H
Well: Bow River 28 State #1H
Wellbore: Bow River 28 State #1H
Design: Original Plan

Local Co-ordinate Reference: Well Bow River 28 State #1H
TVD Reference: WELL @ 3994.00ft (Original Well Elev)
MD Reference: WELL @ 3994.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,068.00	0.00	0.00	4,068.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	3.80	1.01	4,099.98	1.06	0.02	1.06	11.89	11.89	0.00
4,200.00	15.69	1.01	4,198.36	17.96	0.32	17.96	11.89	11.89	0.00
4,300.00	27.58	1.01	4,291.15	54.76	0.97	54.76	11.89	11.89	0.00
4,400.00	39.47	1.01	4,374.36	109.87	1.94	109.89	11.89	11.89	0.00
4,500.00	51.35	1.01	4,444.44	180.95	3.19	180.98	11.89	11.89	0.00
4,600.00	63.24	1.01	4,498.38	264.93	4.67	264.97	11.89	11.89	0.00
4,700.00	75.13	1.01	4,533.85	358.22	6.32	358.28	11.89	11.89	0.00
4,800.00	87.01	1.01	4,549.35	456.82	8.05	456.89	11.89	11.89	0.00
4,825.12	90.00	1.01	4,550.00	481.93	8.50	482.00	11.89	11.89	0.00
4,900.00	90.00	1.01	4,550.00	556.79	9.82	556.88	0.00	0.00	0.00
5,000.00	90.00	1.01	4,550.00	656.77	11.58	656.88	0.00	0.00	0.00
5,100.00	90.00	1.01	4,550.00	756.76	13.34	756.88	0.00	0.00	0.00

EOG Resources Inc

Planning Report

Database: EDM
Company: Midland - New Mexico
Project: Thames
Site: Bow River 28 State #1H
Well: Bow River 28 State #1H
Wellbore: Bow River 28 State #1H
Design: Original Plan

Local Co-ordinate Reference: Well Bow River 28 State #1H
TVD Reference: WELL @ 3994.00ft (Original Well Elev)
MD Reference: WELL @ 3994.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (?)	Azimuth (?)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
5,200.00	90.00	1.01	4,550.00	856.74	15.10	856.88	0.00	0.00	0.00
5,300.00	90.00	1.01	4,550.00	956.73	16.87	956.88	0.00	0.00	0.00
5,400.00	90.00	1.01	4,550.00	1,056.71	18.63	1,056.88	0.00	0.00	0.00
5,500.00	90.00	1.01	4,550.00	1,156.70	20.39	1,156.88	0.00	0.00	0.00
5,600.00	90.00	1.01	4,550.00	1,256.68	22.15	1,256.88	0.00	0.00	0.00
5,700.00	90.00	1.01	4,550.00	1,356.67	23.92	1,356.88	0.00	0.00	0.00
5,800.00	90.00	1.01	4,550.00	1,456.65	25.68	1,456.88	0.00	0.00	0.00
5,825.12	90.00	1.01	4,550.00	1,481.77	26.12	1,482.00	0.00	0.00	0.00
5,892.19	92.01	1.01	4,548.82	1,548.81	27.30	1,549.05	3.00	3.00	0.00
5,900.00	92.01	1.01	4,548.55	1,556.62	27.44	1,556.86	0.00	0.00	0.00
6,000.00	92.01	1.01	4,545.04	1,656.54	29.20	1,656.80	0.00	0.00	0.00
6,100.00	92.01	1.01	4,541.53	1,756.46	30.96	1,756.73	0.00	0.00	0.00
6,200.00	92.01	1.01	4,538.02	1,856.38	32.72	1,856.67	0.00	0.00	0.00
6,300.00	92.01	1.01	4,534.51	1,956.31	34.48	1,956.61	0.00	0.00	0.00
6,400.00	92.01	1.01	4,531.00	2,056.23	36.24	2,056.55	0.00	0.00	0.00
6,500.00	92.01	1.01	4,527.48	2,156.15	37.99	2,156.49	0.00	0.00	0.00
6,600.00	92.01	1.01	4,523.97	2,256.08	39.75	2,256.43	0.00	0.00	0.00
6,700.00	92.01	1.01	4,520.46	2,356.00	41.51	2,356.36	0.00	0.00	0.00
6,800.00	92.01	1.01	4,516.95	2,455.92	43.27	2,456.30	0.00	0.00	0.00
6,900.00	92.01	1.01	4,513.44	2,555.84	45.03	2,556.24	0.00	0.00	0.00
7,000.00	92.01	1.01	4,509.93	2,655.77	46.79	2,656.18	0.00	0.00	0.00
7,100.00	92.01	1.01	4,506.42	2,755.69	48.55	2,756.12	0.00	0.00	0.00
7,200.00	92.01	1.01	4,502.91	2,855.61	50.31	2,856.06	0.00	0.00	0.00
7,300.00	92.01	1.01	4,499.40	2,955.54	52.07	2,955.99	0.00	0.00	0.00
7,400.00	92.01	1.01	4,495.89	3,055.46	53.82	3,055.93	0.00	0.00	0.00
7,500.00	92.01	1.01	4,492.38	3,155.38	55.58	3,155.87	0.00	0.00	0.00
7,600.00	92.01	1.01	4,488.87	3,255.30	57.34	3,255.81	0.00	0.00	0.00
7,700.00	92.01	1.01	4,485.36	3,355.23	59.10	3,355.75	0.00	0.00	0.00
7,800.00	92.01	1.01	4,481.85	3,455.15	60.86	3,455.69	0.00	0.00	0.00
7,900.00	92.01	1.01	4,478.34	3,555.07	62.62	3,555.62	0.00	0.00	0.00
8,000.00	92.01	1.01	4,474.82	3,655.00	64.38	3,655.56	0.00	0.00	0.00
8,100.00	92.01	1.01	4,471.31	3,754.92	66.14	3,755.50	0.00	0.00	0.00
8,200.00	92.01	1.01	4,467.80	3,854.84	67.89	3,855.44	0.00	0.00	0.00
8,300.00	92.01	1.01	4,464.29	3,954.76	69.65	3,955.38	0.00	0.00	0.00
8,307.95	92.01	1.01	4,464.01	3,962.71	69.79	3,963.32	0.00	0.00	0.00
8,308.35	92.00	1.01	4,464.00	3,963.11	69.80	3,963.72	3.00	-2.97	0.40
BHL (Bow #1H)									

Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(?)	(?)	(ft)	(ft)	(ft)	(ft)	(ft)		
BHL (Bow #1H)	0.00	360.00	4,464.00	3,963.11	69.80	627,333.40	390,368.60	32° 43' 26.864 N	104° 41' 23.345 W
- plan hits target center									
- Point									

WELL DETAILS: Bow River 28 State #1H

+N/-S	+E/-W	Northing	Ground Level:	3975.00			
0.00	0.00	623370.30	Easting	390298.80	Latitude	Longitude	Slot
				32° 42' 47.645 N	104° 41' 24.006 W		

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFac	Target	Sec
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4068.00	0.00	0.00	4068.00	0.00	0.00	0.00	0.00	0.00	
3	4825.12	90.00	1.01	4550.00	481.93	8.50	11.89	1.01	482.00	
4	5825.12	90.00	1.01	4550.00	1481.77	26.12	0.00	0.00	1482.00	
5	5892.19	92.01	1.01	4548.82	1548.81	27.30	3.00	-0.05	1549.05	
6	8307.95	92.01	1.01	4464.01	3962.71	69.79	0.00	0.00	3963.32	
7	8308.35	92.00	1.01	4464.00	3963.11	69.80	3.00	0.00	3963.72	

