

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101  
June 16, 2008

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit to appropriate District Office

☐ AMENDED REPORT

**RECEIVED**  
**SEP 18 2009**  
**HOBBSOCD**

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,  
PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico		<sup>2</sup> OGRID Number 025575 ✓
		<sup>3</sup> API Number 30 -025-31243 ✓
<sup>3</sup> Property Code <del>23254</del> <b>37563</b>	<sup>5</sup> Property Name Reba "BNU" State Com.	<sup>6</sup> Well No 5 ✓
<sup>9</sup> Proposed Pool 1 Llano, Upper Penn		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no K	Section 32	Township 11 S	Range 35E	Lot Idn	Feet from the 2300	North/South line South	Feet from the 1650	East/West line West	County Lea
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<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

UL or lot no. K	Section 32	Township 11S	Range 35E	Lot Idn	Feet from the 2270'	North/South line South	Feet from the 1720	East/West line West	County Lea
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Additional Well Information

<sup>11</sup> Work Type Code <b>P</b> Whipstock	<sup>12</sup> Well Type Code Oil	<sup>13</sup> Cable/Rotary Rotary	<sup>14</sup> Lease Type Code State	<sup>15</sup> Ground Level Elevation 4160
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 10600	<sup>18</sup> Formation Ranger Lake	<sup>19</sup> Contractor	<sup>20</sup> Spud Date

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	478-in place	500	0
11"	8 5/8"	32#	4300-in place	1350	0
7 7/8"	5 1/2"	17#	10600	1025	3800

<sup>22</sup> Describe the proposed program If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone Describe the blowout prevention program, if any. Use additional sheets if necessary  
Yates Petroleum Corporation had a casing part at 6248' in this well and was unable to get back on the casing stub to repair the well. A cement plug was placed as per OCD instructions and a kick-off plug was set from 5400' to 4815'. The plan is to move in a drilling rig, dress off the plug to approximately 5200' At this point kick off the well sufficiently to drill to 10600' as near the original wellbore as is practical Open hole logs will then be run and 5 5" casing will be run to new TD of 10600' and cemented to inside the intermediate casing to about 3800'

The well will be completed with a pulling unit in the Ranger Lake interval. The mud program will be 9.2 to 9.8 ppg brine water in the upper portion with a salt gel at 9.6 to 10.0 ppg with viscosity of 35-40 cp in the lower portion.

BOPE. A3000 psi system nipped up on the 8 5/8" casing.

H2S H2S is not anticipated in this well.

**Permit Expires 2 Years From Approval  
Date Unless Drilling Underway**

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature

*Clifton May*

Printed name:

Clifton May

Title

Land Regulatory Agent

E-mail Address cliff@yatespetroleum.com

Date

September 17, 2009

Phone

748-4347

OIL CONSERVATION DIVISION

Approved by:

*[Signature]*  
**PETROLEUM ENGINEER**

Title.

Approval Date.

**SEP 28 2009**

Expiration Date

Conditions of Approval Attached ☐

## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

1301 W. Grand Avenue, Artesia, NM 88210

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## District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

## State of New Mexico

Energy, Minerals &amp; Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

To Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

RECEIVED

SEP 18 2009

HOBBSOCD

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-31243	<sup>2</sup> Pool Code 39400	<sup>3</sup> Pool Name Llano; Upper Penn (Oil)
<sup>4</sup> Property Code 33254 37563	<sup>5</sup> Property Name Reba "BNU" State Com.	
<sup>7</sup> OGRID No. 025575	<sup>8</sup> Operator Name Yates Petroleum Corporation	<sup>6</sup> Well Number 5
		<sup>9</sup> Elevation 4160'

<sup>10</sup> Surface Location

UL or lot no K	Section 32	Township 11S	Range 35E	Lot Idn	Feet from the 2300	North/South line South	Feet from the 1650	East/West line West	County Lea
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no. K	Section 32	Township 11S	Range 35E	Lot Idn	Feet from the 2270	North/South line South	Feet from the 1720	East/West line West	County Lea
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<sup>12</sup> Dedicated Acres 80	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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Per R-13149

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.

<sup>16</sup> 	<sup>17</sup> <b>OPERATOR CERTIFICATION</b> 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 Signature <u>Clifton May</u> Date <u>9/17/09</u> Printed Name <u>Clifton May</u>	
	<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> 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 Refer to original plat Date of Survey _____ Signature and Seal of Professional Surveyor _____	
	Certificate Number _____	

Well Name: Reba BNU State Com No. 5 Field: \_\_\_\_\_

Location: 2300' FSL & 1650' FWL Sec. 32-11S-35E Lea Co, NM

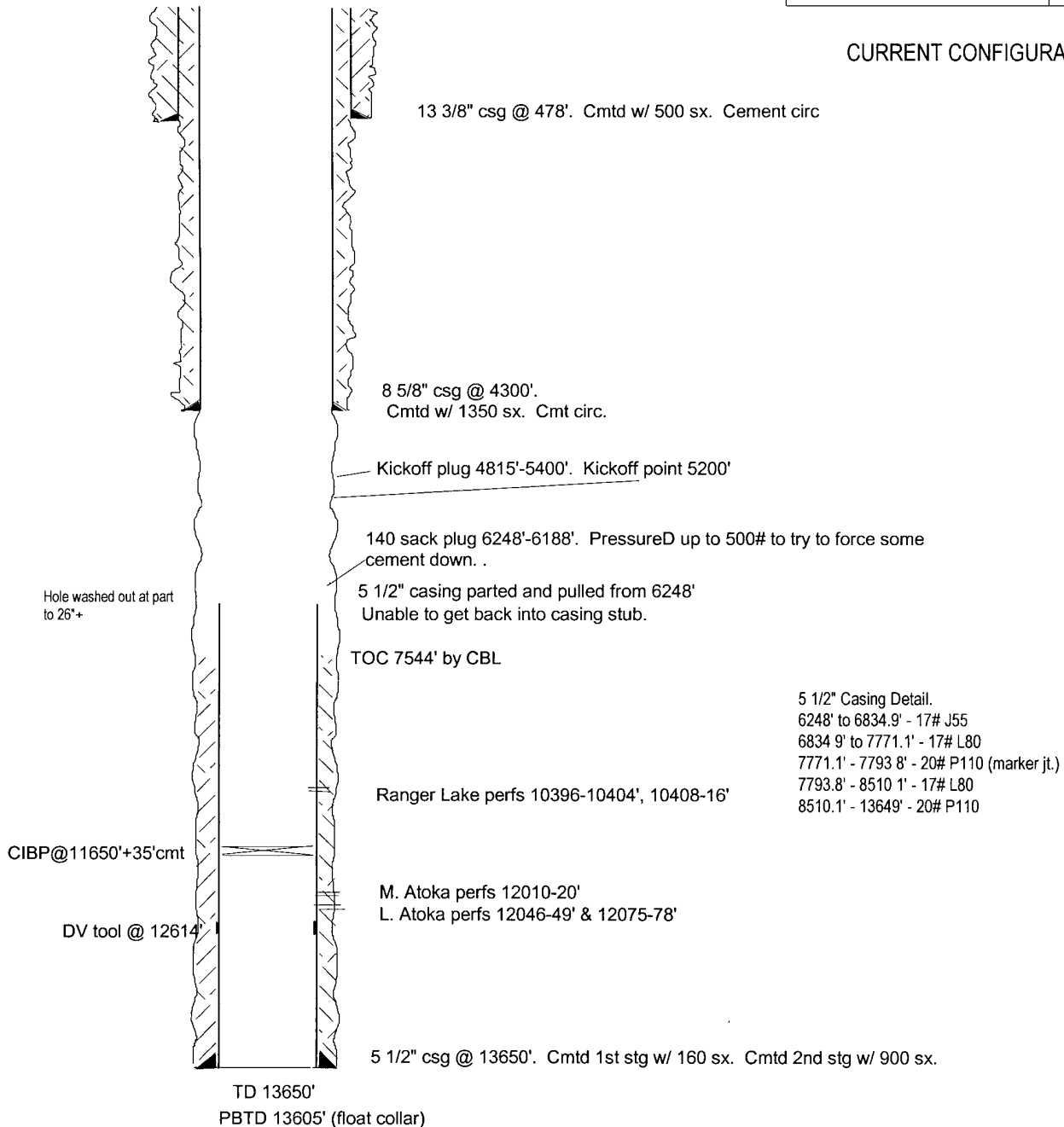
GL: 4160' Zero: \_\_\_\_\_ AGL: \_\_\_\_\_ KB: 4177.5'

Spud Date: \_\_\_\_\_ Completion Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Casing Program	
Size/Wt/Grade/Conn	Depth Set
13 3/8" 43#	478'
8 5/8" 28#	4300'
5 1/2" 17& 20# J55, L80, P110	13650'

### CURRENT CONFIGURATION



SKETCH NOT TO SCALE

DATE: 9/1/09 REBA5K

Well Name: Reba BNU State Com No. 5 Field: \_\_\_\_\_

Location: 2300' FSL & 1650' FWL Sec. 32-11S-35E Lea Co, NM

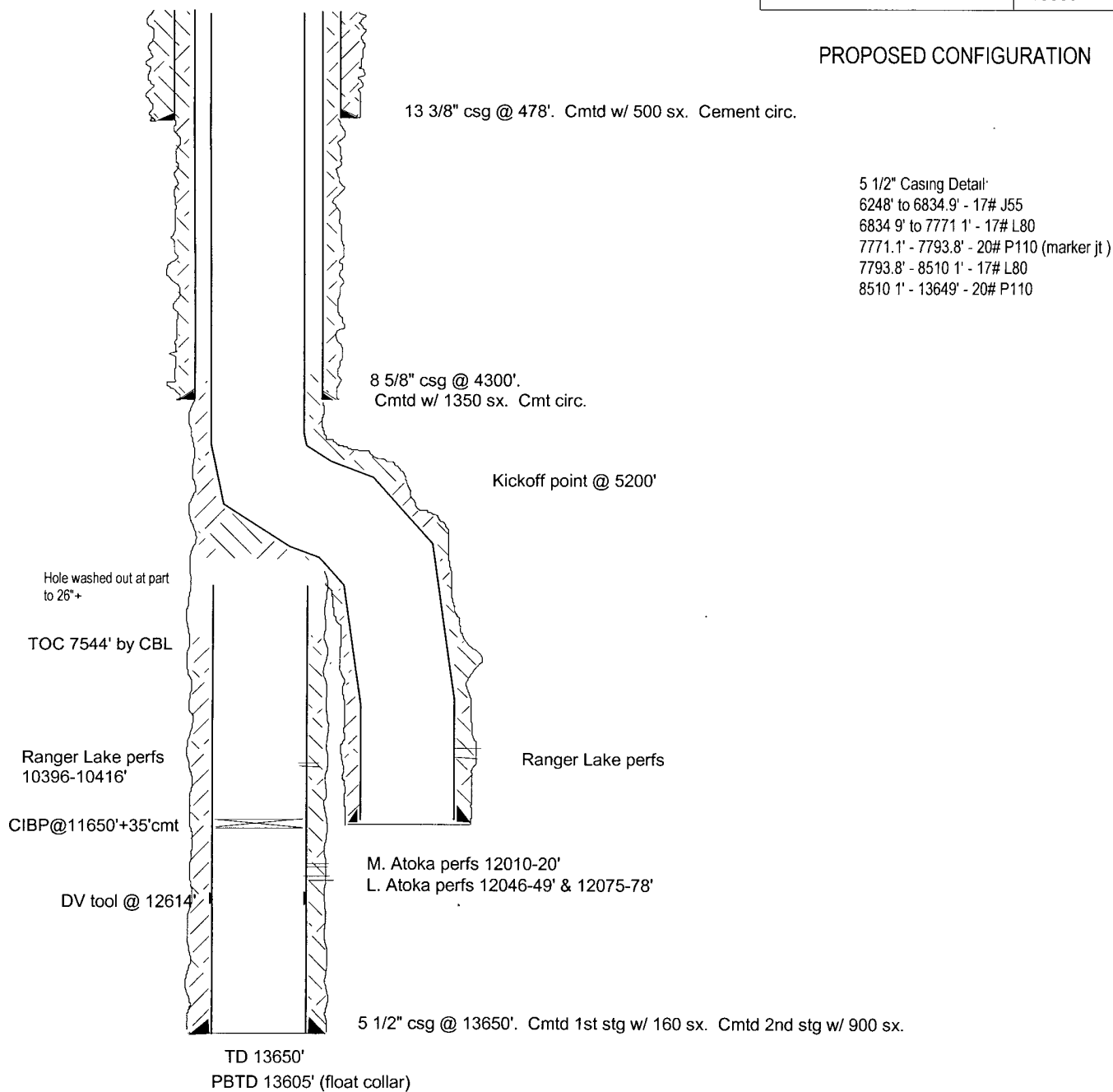
GL: 4160' Zero: \_\_\_\_\_ AGL: \_\_\_\_\_ KB: 4177.5'

Spud Date: \_\_\_\_\_ Completion Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Casing Program	
Size/Wt/Grade/Conn	Depth Set
13 3/8" 43#	478'
8 5/8" 28#	4300'
original hole	
5 1/2" 17& 20# J55, L80, P110	13650'
sidetrack hole	
5 1/2" 17# J55&L80	10600'

### PROPOSED CONFIGURATION



SKETCH NOT TO SCALE

DATE: 9/1/09 REBA5K

**Reba BNU State #5 (Production Casing)**

		0 ft to 1,200 ft		Make up Torque ft-lbs			Total ft = 1,200
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
5.5 inches	17 #/ft	L-80	LT&C	3410	2560	4260	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
6,290	7,740 psi	338 ,000 #		397 ,000 #		4.767	

		1,200 ft to 7,800 ft		Make up Torque ft-lbs			Total ft = 6,600
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
5.5 inches	17 #/ft	J-55	LT&C	2470	1850	3090	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
4,910	5,320 psi	247 ,000 #		273 ,000 #		4.767	

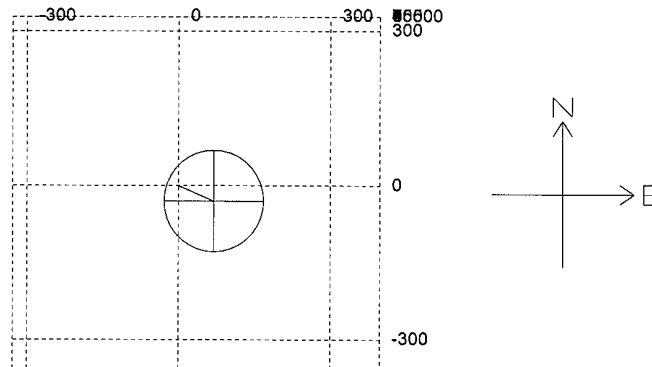
  

		7,800 ft to 10,602 ft		Make up Torque ft-lbs			Total ft = 2,802
O.D.	Weight	Grade	Threads	opt.	min.	mx.	
5.5 inches	17 #/ft	HCP-110	LT&C	4620	3470	5780	
Collapse Resistance	Internal Yield	Joint Strength		Body Yield		Drift	
8,580 psi	10,640 psi	445 ,000 #		546 ,000 #		4.767	

Yates Petroleum Corporation wishes to re-enter this well with a drilling rig down to a previously set kick off plug at 5000'. Kick off plug will be dressed off to approx. 5200' where sidetracking operations will begin. Well will be side-tracked approx. 76' away from existing wellbore in an East Southeast direction then returned to vertical as per attached directional plan. Once at TD, 5 1/2" casing will be set and cemented. Cement will tie back 500' into intermediate casing.

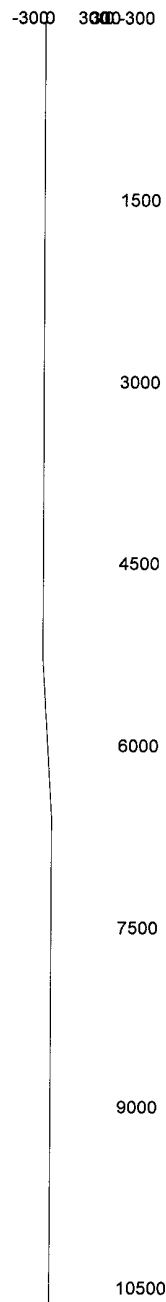
# 3D<sup>3</sup> Directional Drilling Planner - 3D View

Company: **Yates Petroleum Corporation**  
Well: **Reba 5**



# 3D<sup>3</sup> Directional Drilling Planner - 3D View

Company: Yates Petroleum Corporation  
Well: Reba 5



	M.D. [ft]	Inclination [°]	Azimuth [°]	T.V.D. [ft]	N+/-S- [ft]	E+/-W- [ft]	D.L.S. [°/100ft]	ToolFace [°]	T.F. Ref. [HS/GN]
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	5200.00	0.00	0.00	5200.00	0.00	0.00	2.50	113	GN
3	5200.00	0.00	0.00	5200.00	0.00	0.00	2.50	113	GN
4	5225.00	0.62	113.20	5225.00	-0.05	0.13	2.50	360	HS
5	5250.00	1.25	113.20	5250.00	-0.21	0.50	2.50	0	HS
6	5275.00	1.88	113.20	5274.99	-0.48	1.13	2.50	0	HS
7	5300.00	2.50	113.20	5299.97	-0.86	2.00	2.50	0	HS
8	5325.00	3.12	113.20	5324.94	-1.34	3.13	2.50	360	HS
9	5338.14	3.45	113.20	5338.05	-1.64	3.83	0.00		
10	6464.09	3.45	113.20	6461.96	-28.36	66.16	0.00		
11	6475.00	3.18	113.20	6472.85	-28.61	66.76	2.50	180	HS
12	6500.00	2.56	113.20	6497.82	-29.10	67.91	2.50	180	HS
13	6525.00	1.93	113.20	6522.80	-29.49	68.80	2.50	180	HS
14	6550.00	1.31	113.20	6547.79	-29.77	69.45	2.50	180	HS
15	6575.00	0.68	113.20	6572.79	-29.94	69.85	2.50	180	HS
16	6600.00	0.07	113.20	6597.79	-30.00	70.00	2.50	293	GN
17	6602.21	0.04	113.86	6600.00	-30.00	70.00	2.50	293	GN
18	10602.21	0.00	345.32	10600.00	-30.00	70.00	0.00		