

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Yates	1085'					
San Andres	2690'					
Yeso	4200'					
Abo	6030'					
Wolfcamp	7680'					
Strawn	10220'					
Atoka	10410'					
Morrow	10635'					
Mississippian	11150'					

State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

✓ AMENDED REPORT

API Number 30-015-34214	Pool Code	Pool Name Anderson; Penn (Gas)
Property Code	Property Name GRAYBURG DEEP UNIT	Well Number 17
GRID No. 162683	Operator Name GRUY PETROLEUM MANAGEMENT COMPANY	Elevation 3623'

Surface Location

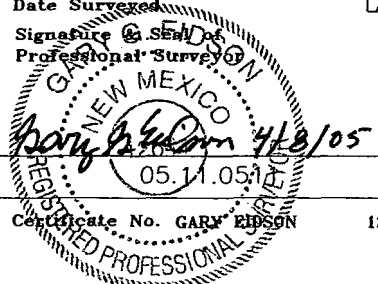
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	19	17-S	30-E		1990	SOUTH	445	WEST	EDDY

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
L	19	17-S	30-E		2168	SOUTH	649	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
160 314.82 N	U		

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

Location Top Morrow Perfs: 2169' FSL & 615' FWL Depth Top Morrow Perfs: 10969'		OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature Zeno Farris Printed Name Mgr Operations Admin Title December 7, 2005 Date	
GEODETIC COORDINATES NAD 27 NME BOTTOM HOLE LOCATION Y=661814.7 N X=597182.0 E		RECEIVED JAN 03 2006 UUU-ARTESIA	
2169' 445' SHLT P.P. Penn BHL SURF. LOCATION SEE DETAIL 2168' 10661' 3623.6' 600' 3624.8' 3620.8' 3622.0' DETAIL LC-028793-A Grayburg Deep Unit #17 LC-028784-B		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. MARCH 30, 2005 Date Surveyed Signature & Seal of Professional Surveyor  Certificate No. GARY ELTON 12841	
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=661494.2 N X=596968.0 E LAT.=32°49'05.29" N LONG.=104°01'03.70" W			

INCLINATION REPORT

DATE: 12/5/05

WELL NAME : GRAYBURG DEEP UNIT 17
LOCATION: Eddy County, New Mexico
OPERATOR: CIMAREX ENERGY
DRILLING CONTRACTOR: GREY WOLF DRILLING COMPANY, LP
RIG 514

I, Freddie Rios, do hereby certify, that the following inclination report was prepared in the office of GRI WOLF DRILLING COMPANY, LP in Midland, Texas, under my supervision, from records of said well, as true and correct to the best of my knowledge:

DEGREE	DEPTH	DEGREE	DEPTH	DEGREE	DEPTH	DEGREE	DEPTH
1	@ 229	1	@ 8672	11.6	@ 10116	16.7	@
1	@ 462	2.25	@ 9162	12.4	@ 10147	16.3	@
1	@ 921	1.53	@ 9540	13.4	@ 10179	15.6	@
1	@ 1426	.3	@ 9582	14.2	@ 10211	15.4	@
1	@ 1925	1.5	@ 9646	15.1	@ 10241	15.5	@
.75	@ 2435	3.3	@ 9678	16	@ 10273	14.9	@
1.25	@ 2946	4.6	@ 9709	16.7	@ 10303	14.3	@
.5	@ 3489	5.9	@ 9740	16.9	@ 10334	14.1	@
.5	@ 3809	7.3	@ 9771	16.2	@ 10365	13.7	@
.75	@ 4366	9.6	@ 9835	16.3	@ 10457	13.3	@
1	@ 4765	9.9	@ 9865	15	@ 10487	11.9	@
1	@ 5298	9.6	@ 9897	13.4	@ 10518	11.1	@
1.25	@ 5807	9.4	@ 9928	12	@ 10549	10.4	@
1	@ 6304	9.3	@ 9960	12	@ 10581	10.1	@
1	@ 6763	9.1	@ 9992	12.2	@ 10612	9.8	@
.25	@ 7239	9.3	@ 10021	12.9	@ 10642		
.75	@ 7676	9.9	@ 10053	14.5	@ 10673		
.75	@ 8176	10.9	@ 10085	16.1	@ 10703		

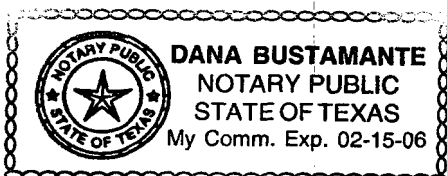
Drilling Contractor:
Grey Wolf Drilling Company, LP

By: Freddie Rios
Freddie Rios

Subscribed and sworn to before me on this 5th day of December, 2005.

My Commission Expires: 2-15-06

By: Dana Bustamante
Notary Public





Phone: 432.561.8801

Fax: 432.561.8870

P. O. Box 2552

Midland, Texas 79702

Well Completion Report

Gruy Petroleum Management Co.

Greyburg Deep Unit #17
Greywolf 514
Eddy County, New Mexico

September 26, 2005

RECEIVED

JAN 03 2006

OCU-ARTESIA



30-015-34214

Cimarex Energy Co., Inc.

Eddy Co., New Mexico

Grayburg Deep Unit No. 17

Grayburg Deep Unit No. 17

Slant #1

Survey: MWD Survey #1

Standard Survey Report

21 September, 2005

RECEIVED

JAN 03 2006

ODD-ARTESIA





Black Viper Energy Services Survey Report



Company:	Cimarex Energy Co., Inc.	Local Co-ordinate Reference:	Well Grayburg Deep Unit No. 17
Project:	Eddy Co., New Mexico	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	Grayburg Deep Unit No. 17	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Wellbore:	Slant #1	North Reference:	Grid
Design:	Slant #1	Survey Calculation Method:	Minimum Curvature
		Database:	2003.11 0.3 Server Database

Project:	Eddy Co., New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Map Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Grayburg Deep Unit No. 17					
Well Position:		Northing:	661 494.20 ft	Latitude:	32° 49' 05.281" N
Well Position:	Map	Easting:	596 968.00 ft	Longitude:	104° 01' 03.712" W
Position Uncertainty:	0.00 ft	Spot Radius:	"	Grid Convergence:	0 17 °

Well:	Grayburg Deep Unit No. 17					
Well Position	+N/-S	0.00 ft	Northing:	661,494.20 ft	Latitude:	32° 49' 05.281" N
	+E/-W	0.00 ft	Easting:	596,968.00 ft	Longitude:	104° 01' 03.712" W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	0.00 ft

Wellbore	Slant #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	7/12/2005	8.53	60.80	49,557

Design:	Slant #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	9 540.00

Vertical Section	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	33.73

Survey Program		Date	8/21/2005	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	9,540.00	Gyro Survey #1 (OH)	GM	Gyro Multi-Shot
9,551.00	11 300.00	MWD Survey #1 (Slant #1)	MWD	Standard MWD

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)
9 540.00	1.53	295.44	9 539.30	67.66	-27.21	41.17	0.00	0.00	0.00
9,551.00	1.00	287.40	9,550.30	67.76	-27.43	41.12	5.07	-4.82	-73.09
First MWD Survey									
9,582.00	0.30	286.60	9 581.29	67.86	-27.77	41.02	2.26	-2.28	-2.58
9 615.00	0.30	150.90	9 614.29	67.81	-27.81	40.95	1.68	0.00	-411.21
9 646.00	1.50	116.80	9 645.29	67.56	-27.40	40.97	4.08	3.87	-110.65
9 678.00	3.30	118.40	9,677.26	66.93	-26.22	41.10	5.63	5.63	5.63
9 709.00	4.60	120.70	9,708.19	65.87	-24.37	41.25	4.22	4.19	7.42
9,740.00	5.90	123.40	9 739.05	64.36	-21.97	41.33	4.27	4.19	8.71
9,771.00	7.30	123.40	9,769.85	62.40	-18.99	41.35	4.52	4.52	0.00
9,835.00	9.60	123.10	9 833.15	57.24	-11.13	41.43	3.59	3.58	-0.47
9,865.00	9.90	121.20	9,862.72	54.54	-6.82	41.57	1.47	1.00	-6.33



Black Viper Energy Services Survey Report



Company: Cimarex Energy Co., Inc.
Project: Eddy Co. New Mexico
Well: Grayburg Deep Unit No. 17
Well: Grayburg Deep Unit No. 17
Wellbore: Slant #1
Design: Slant #1

Local Co-ordinate Reference: Well Grayburg Deep Unit No. 17
TVD Reference: WELL @ 0.00ft (Original Well Elev.)
MD Reference: WELL @ 0.00ft (Original Well Elev.)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 2003.11.03 Server Database

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Built Rate (°/100ft)	Turn Rate (°/100ft)
9 897.00	9 60	122 20	9 894.25	51.70	-2.21	41 76	1.08	-0.94	3.13
9 928.00	9.40	123.80	9 924.83	48.91	2.08	41 83	1.07	-0.65	5.16
9 960.00	9.30	122.30	9 956.40	46.07	6.43	41 89	0.82	-0.31	-4.69
9 992.00	9.10	122.40	9 987.99	43.34	10.76	42 02	0.63	-0.63	0.31
10 021.00	9.30	115.80	10 016.62	41.09	14.80	42 39	3.70	0.69	-22.76
10 053.00	9.90	107.00	10 048.17	39.16	19.76	43 54	4.95	1.88	-27.50
10 086.00	10.90	99.50	10 080.63	37.81	25.55	45.64	5.09	3.03	-22.73
10 116.00	11.60	93.10	10 110.06	37.18	31.36	48 34	4.77	2.33	-21.33
10 146.00	12.40	88.70	10 139.40	37.09	37.59	51 72	4.05	2.67	-14.67
10 178.00	13.40	83.20	10 170.59	37.61	44.71	56.11	4.95	3.13	-17.19
10 211.00	14.20	78.80	10 202.64	38.85	52.48	61 45	4.00	2.42	-13.33
10 242.00	15.10	72.70	10 232.64	40.79	60.06	67.28	5.76	2.90	-19.68
10 272.00	16.00	68.90	10 261.54	43.44	67.65	73.69	4.53	3.00	-12.67
10 304.00	16.70	62.60	10 292.25	47.14	75.85	81 33	5.95	2.19	-19.69
10 334.00	16.90	58.80	10 320.97	51.39	83.41	89.05	3.72	0.67	-12.67
10 365.00	16.20	53.30	10 350.68	56.30	90.73	97 21	5.53	-2.26	-17.74
10 457.00	16.30	53.80	10 439.01	71.60	111.44	121.43	0.19	0.11	0.54
10 487.00	15.00	47.70	10 467.90	76.70	117.71	129.15	6.98	-4.33	-20.33
10 518.00	13.40	40.70	10 497.95	82.12	123.02	136.61	7.56	-5.16	-22.58
10 549.00	12.00	33.30	10 528.20	87.54	127.13	143.40	6.92	-4.52	-23.87
10 581.00	12.00	25.20	10 559.50	93.33	130.37	150.01	5.26	0.00	-25.31
10 612.00	12.20	21.10	10 589.81	99.30	132.92	156.40	2.85	0.65	-13.23
10 642.00	12.90	20.40	10 619.09	105.40	135.23	162.75	2.39	2.33	-2.33
10 673.00	14.50	21.00	10 649.21	112.27	137.83	169.90	5.18	5.16	1.94
10 703.00	16.10	23.80	10 678.15	119.58	140.85	177.68	5.87	5.33	9.33
10 734.00	16.70	25.50	10 707.89	127.53	144.51	186.31	2.48	1.94	5.48
10 766.00	16.30	28.40	10 738.57	135.70	148.48	195.31	1.48	-1.25	2.81
10 797.00	15.60	27.90	10 768.37	143.28	152.37	203.77	2.62	-2.26	4.84
10 829.00	15.40	28.90	10 799.21	150.81	158.43	212.29	1.04	-0.63	3.13
10 860.00	15.50	27.60	10 829.09	158.08	160.34	220.51	1.16	0.32	-4.19
10 892.00	14.90	24.10	10 859.97	165.63	164.00	228.81	3.43	-1.88	-10.94
10 923.00	14.30	21.70	10 889.97	172.82	167.05	236.49	2.75	-1.94	-7.74
10 954.00	14.10	22.00	10 920.02	179.88	169.88	243.93	0.69	-0.65	0.97
10 985.00	13.70	24.70	10 950.12	186.72	172.83	251.25	2.46	-1.29	8.71
11 017.00	13.30	30.90	10 981.23	193.32	176.30	258.67	4.69	-1.25	19.38
11 048.00	12.50	34.10	11 011.45	199.16	180.01	265.59	3.46	-2.58	10.32
11 079.00	11.90	36.40	11 041.75	204.51	183.79	272.13	2.49	-1.94	7.42
11 110.00	11.10	36.40	11 072.13	209.48	187.46	278.31	2.58	-2.58	0.00
11 142.00	10.40	35.20	11 103.57	214.32	190.95	284.27	2.30	-2.19	-3.75
11 173.00	10.10	33.80	11 134.07	218.87	194.07	289.79	1.26	-0.97	-4.52
11 204.00	9.80	27.70	11 164.61	223.46	196.81	295.13	3.53	-0.97	-19.68
11 246.00	9.70	25.80	11 206.00	229.81	200.01	302.19	0.80	-0.24	-4.52
Last MWD Survey									
11,300.00	9.70	25.80	11 259.23	238.00	203.97	311.20	0.00	0.00	0.00
Proj to BH - TD									



Black Viper Energy Services
Survey Report



Company: Cimarex Energy Co., Inc
Eddy Co., New Mexico
Grayburg Deep Unit No. 17
Grayburg Deep Unit No. 17
Slant #1
Slant #1

Local Co-ordinate Reference: Well Grayburg Deep Unit No. 17
TVD Reference: WELL @ 0.00ft (Original Well Elev)
MD Reference: WELL @ 0.00ft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: 2003.11.03 Server Database

Target Name	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shimmiss target	(°)	(°)	(ft)	ft	ft	(ft)	(ft)		
PP#2 [GDU#17]	0.00	0.00	10,700.00	160.00	107.00	661 654 20	597,075.00	32° 49' 06.861" N	104° 01' 02.453" W
- survey misses by 50.29ft at 10725.77ft MD (10700.00 TVD, 125.40 N, 143.50 E)									
- Point									
PBHL [GDU#17]	0.00	359.69	11,720.00	320.50	214.00	661 814.70	597 182.00	32° 49' 08.446" N	104° 01' 01.193" W
- survey misses by 468.21ft at 11300.00ft MD (11259.23 TVD, 238.00 N, 203.97 E)									
- Rectangle (sides W400.00 H400.00 D0.00)									
PP [GDU#17]	0.00	0.00	10,500.00	97.00	78.00	661 591.20	597 046.00	32° 49' 06.239" N	104° 01' 02.795" W
- survey misses by 47.60ft at 10520.10ft MD (10500.00 TVD, 82.49 N, 123.33 E)									
- Point									

Survey Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
9 551.00	9,550.30	67.78	-27.43	First MWD Survey
11 246.00	11,206.00	229.81	200.01	Last MWD Survey
11,300.00	11,259.23	238.00	203.97	Proj to Bit - TD

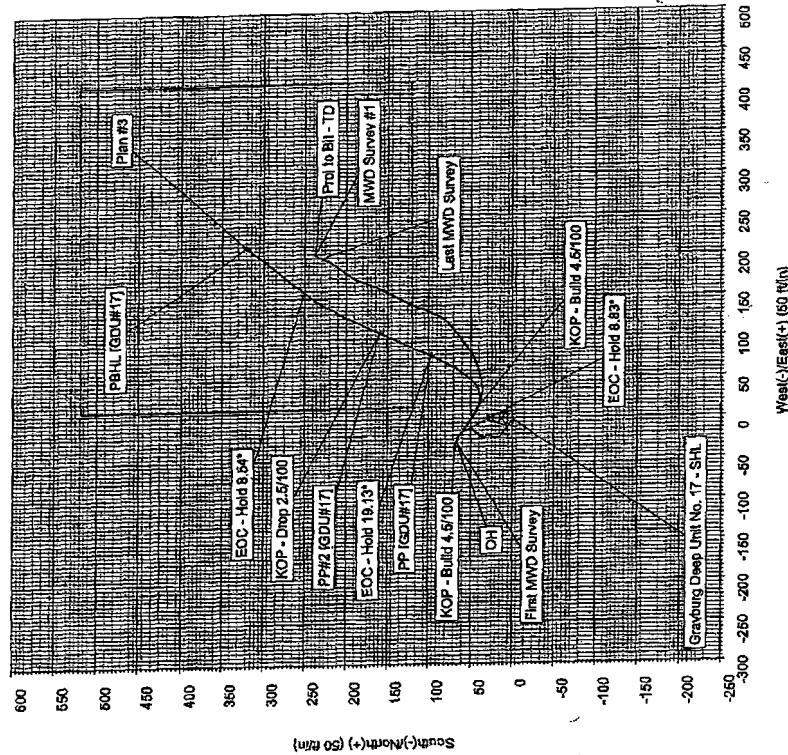
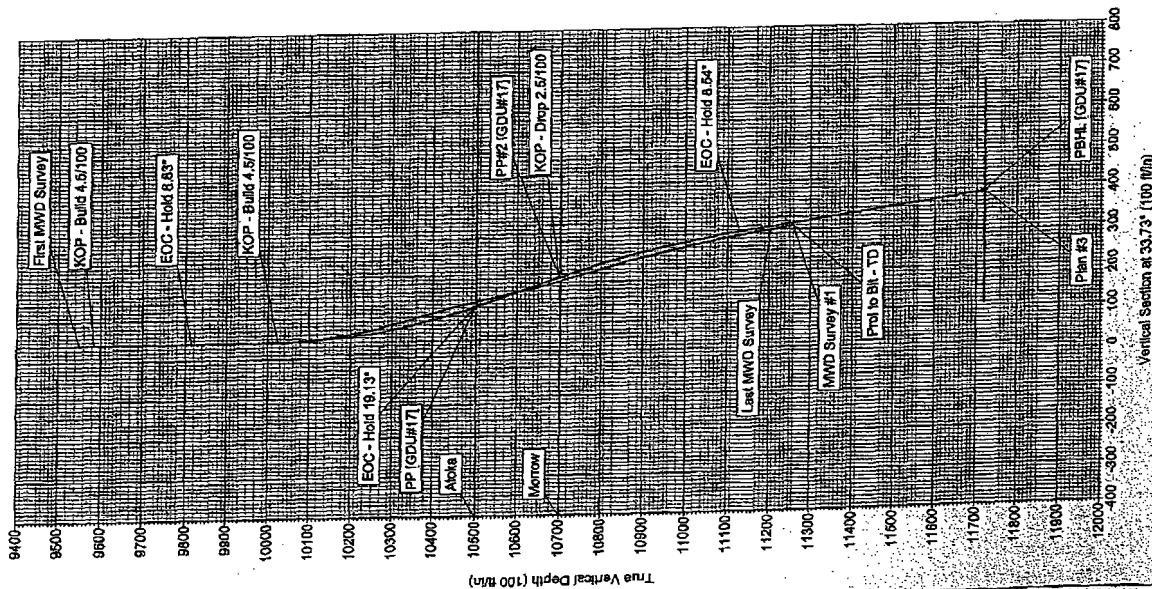
Checked By: _____ Approved By: _____ Date: _____



Project: EOC / OCS / North Texas
Site: Grayburg Deep Unit No. 17
Well: Grayburg Deep Unit No. 17
Wellbore: Slant #1
Plan: Plan #3



Magnetic Field
Strength: 49557.2nT
Dip Angle: 80.80°
Date: 7/12/2005
Model: IGRF2005.0



West(-)/East(+) (50 ft/m)

ANNOTATIONS	
TVD	MD
9584.28	9585.00
9813.51	9815.01
10023.86	10027.88
10500.00	10514.52
10700.00	10728.20
11128.59	11168.11

Plan: Plan #3 (Grayburg Deep Unit No. 17) (Sheet #1)
Created By: John Haggberg Date: 2/16/2005

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9540.00	1.53	295.44	9539.30	67.66	-27.21	0.00	0.00	41.17	
2	9895.00	1.53	295.44	9894.28	68.18	-28.29	0.00	0.00	40.98	
3	9815.01	8.83	121.31	9813.51	60.31	-15.95	4.50	-174.99	41.30	
4	10027.88	8.83	121.31	10023.86	43.33	11.96	0.00	0.00	42.68	
5	10514.52	18.13	24.72	10500.00	97.00	78.00	4.50	-119.23	123.98	PP (GDU#17)
6	10726.20	18.13	24.72	10700.00	160.00	107.00	0.00	0.00	192.48	PP#2 (GDU#17)
7	11168.11	8.54	39.03	11128.59	251.53	158.09	2.50	188.96	296.97	
8	11766.15	8.54	39.03	11720.00	320.50	214.00	0.00	0.00	395.38	PBHL (GDU#17)