

G9623 y 462 +40 43 -260T5

240 174<sup>6</sup>

13154 1.27

4.9

075 229

33

229

63

-260T5



35

RAD. VEL. : -38.500  
MODULUS : 100  
DISTANCE : 5.000  
PM. DEC. : -289.000  
PM. R.A. : 32.000  
DEC. : 48.700  
R.A. : 2.750

U : -1.704  
DU : 336.883  
p1 (U) : 0.217  
p2 (U) : -0.188  
p3 (U) : 0.258

U : -98.483  
DU : -910.020  
p1 (U) : 0.759  
p2 (U) : 0.282  
p3 (U) : -0.611

R.A. : 4.750  
DEC. : 40.700  
PM. R.A. : 33.000  
PM. DEC. : -239.000  
DISTANCE : 5.000  
MODULUS : 100  
RAD. VEL. : -26.500

q1 (U) : 0.217  
q2 (U) : -0.186  
q3 (U) : 0.958  
dU : 236.883  
U : -1.704

q1 (V) : -0.611  
q2 (V) : 0.739  
q3 (V) : 0.282  
dV : -910.020  
V : -98.483

4 46.3 -14 25 d/Fc

3.2

1+R1538

GC5864

5-9 em

[m] 288 +9  
[L] 388 +102  
109

23.8 +25  
34.5 / 103  
12.8  
+2.55

5.74 +0.555 +0.04 ①

3.2 345 187 786 2633

5.75 .361 .173 .457 2633 ②

381 / 189 .462 - 2599 354 -  
381 / 181 460 ④

1,710,5.2

Get

2.50 +28.2 -14.0 -17.2

+133 +84 +50

250 -3  
394 +84 / 83

-40 -22+2.5

+0035 +0405

-0005 +0283

-6007

+17 +3546

100  
+002+037

36

1533.000\*

4.000\*

45.300\*

-16.000\*

-25.000\*

0.002\*

0.037\*

3.000\*

39.811

35.400

31

0.125

0.678

20.7

125

23.992

25

0.106

-0.471

12.9

-10

-12.449

30

0.062

-0.565

-17.8

-17.500

31560

428 967

4 53.7 -28 38

1221

145

53/4

+12.5

812+108

107

4.95

+162-234

-67 -116 +40

+178

-76 -112 +49

-236

18157 227155

127

+125

0910

5567



50x

-73.6

-110.0

28.1

AC



Disavow  
bW DEC : -339'000  
bW B.V. : 128'000  
DEC : -32'920  
B.V. : 4'200

38

30.053	:	M
400.000	:	GM
10.004	:	(M)
10.140	:	(M)
0.584	:	(M)
18.070	:	U
31.177	:	UB
10.797	:	(V)
0.000	:	(V)
10.000	:	(V)
30.100	:	U
019.743	:	UB
10.014	:	(U)
0.000	:	(U)
0.000	:	(U)

25

R.A. : 4.950  
DEC. : -61.400  
R.A. : -182.000  
DEC. : 148.000  
TANCE : 4.000  
DULUS : 63  
VEL. : 0.000

1 (U) : 0.172  
2 (U) : 0.985  
3 (U) : -0.014  
dU : 619.743  
U : 39.103

1 (V) : -0.596  
2 (V) : 0.093  
3 (V) : -0.797  
dV : 311.777  
V : 19.672

1 (W) : 0.784  
2 (W) : -0.146  
3 (W) : -0.604  
dW : -425.896  
W : -26.872

250 157 484 2654

2/26/1961  
HR 15-99

LABORT

4 56.9

± 39 19

± 6.28

-0011 ± 2.6  
-0008  
+002 ± 2.3  
-001

51.801  
667  
863

1891.7

15.77 1884.4

51.792  
+ 22

-0000 000  
-012 000

15.63 1952.36

-3  
15.60  
-4

80

3600

51814  
-150

170-191 919

-595 744 248

244 649 -021

-0097

+0338

-0446

-0.3 ± 6.6

+10 ± 1.5

-13 0

+5.7

+2.5

-1.3



168 (M) 1554 Howell 02/5 III  
6858 8185 323 02 III  
4 588 - 67 11 323 02 III

+159(9) OP  
+155 RV Lines

+002 FHO Cape  
+026 Cape GC  
+027 R104

9.27 704 253 J60

+004 300 ?

+009 +026

+157

9.0

32546

-620376 sub 0000

8185

157



39

04554 - 67114

110

A-T 75

V 2-11

924 200 h/da

7.9  
-6.25

1.852

019+

610

1.

2.0

+57

175

12.09 146 11.13 0.75

1-15

1038

563

387

910 - 615

+570

40



NO

17.11.19

17.11.19

17.11.19

4,900

-61,250

1892,000

-610,000

2,000

25

57,000

0.184

0.983

-0.012

-2049.850

-52.190

-0.600

0.102

-0.793

-2885.295

-117.687

0.778

-0.153

-0.609

3800.035

60.747

0446  
175

910  
-615

-46.7

110.0

+52.6

40

33409

5 058 - 57 37

GLWG (2/2)

-57.741

G-band strong fields B.b. 4077, 4214 strong; strong

So rather than high density? BATT 4554 not visible.

-0022	-014	576
-0012	+086	
-0017	-004	

-014

-010 - 005

.19

.5

7.8

-0018	+007	Cape
-------	------	------

1115  
270  
141

Briley

-0016	+004
-0012	2006

8.0  
-12.0  
+10.0  
-1.3

41

517

2

M : -13.330  
 QM : -38.214  
 P3 (M) : -0.822  
 P2 (M) : -0.872  
 P1 (M) : 0.888  
 V : 2.142  
 QV : 32.122  
 P3 (V) : -0.882  
 P2 (V) : 0.122  
 P1 (V) : -0.284  
 U : -10.292  
 QU : -30.124  
 P3 (U) : 0.822  
 P2 (U) : 0.282  
 P1 (U) : 0.132  
 VEL. : 0.888  
 IDULUS : 393  
 STANCE : 7.888  
 DEC. : -2.888  
 R.A. : -12.888  
 DEC. : -27.288  
 R.A. : 2.188

6.0  
517

12-55 +0.67 -0.08  
 596.44 56.21

M : -14.252 +10.233



R.A. : 5.100  
DEC. : -23.250  
PM. R.A. : 230.000  
PM. DEC. : -300.000  
DISTANCE : 6.000 (5.8)  
MODULUS : 158  
RAD. VEL. : 151.000

q1 (U) : 0.139  
q2 (U) : 0.785  
q3 (U) : 0.603 (4.5)  
dU : -978.066  
U : -63.927 (5)

q1 (V) : -0.584  
q2 (V) : 0.557  
q3 (V) : -0.591 (2.6)  
dV : % -1376.805  
V : -307.386

W  
q1 (W) : 0.800  
q2 (W) : 0.271  
q3 (W) : -0.536  
dW : 416.233  
W : -14.975 (2.0)

33771

05 0911 37 53 66800 (R)

-37.2066

24120

8.45 855

-35.0

Underpoint lent weak metals;  
G lent yields G5.

~~118~~ 116

~~622~~ 622

48 48

0.022

79

30.25

1.44

1.00

+0043 -012 Kale

+057

+055-013

+70

-13

93

-350

8.9

R.A. : 5.150  
DEC. : -37.900  
R.A. : 70.000  
DEC. : -13.000  
DISTANCE : 9.300  
MODULUS : 724  
VEL. : -35.000

1 (U) : 0.127  
2 (U) : 0.914  
3 (U) : 0.386  
dU : -22.969  
U : -30.161

965

-350

1 (V) : -0.580  
2 (V) : 0.385  
3 (V) : -0.718  
dV : -175.541  
V : -102.032

-1307

1 (W) : 0.805  
2 (W) : 0.133  
3 (W) : -0.579  
MP : 202.493  
M : 166.950

43

1202.2

17273  
17226

6473  
34334

**LEVER**

1001

~~1000~~ 1559

new 1002

-22.56

5

**100322**  
**10086 - 100**

**10412**  
**1040 - 100**

10026 - 100

10326

88

111

5.9

22

374

336

457

27.54

424

#	MEMO	AMOUNT	DATE
129	PAY	250.00	0.00
130	MEMO	100.00	0.00
131	PAY	100.00	0.00
132	PAY	100.00	0.00
133	PAY	100.00	0.00
134	PAY	100.00	0.00
135	PAY	100.00	0.00
136	PAY	100.00	0.00
137	PAY	100.00	0.00
138	PAY	100.00	0.00
139	PAY	100.00	0.00
140	PAY	100.00	0.00
141	PAY	100.00	0.00
142	PAY	100.00	0.00
143	PAY	100.00	0.00
144	PAY	100.00	0.00
145	PAY	100.00	0.00
146	PAY	100.00	0.00
147	PAY	100.00	0.00
148	PAY	100.00	0.00
149	PAY	100.00	0.00
150	PAY	100.00	0.00
151	PAY	100.00	0.00
152	PAY	100.00	0.00
153	PAY	100.00	0.00
154	PAY	100.00	0.00
155	PAY	100.00	0.00
156	PAY	100.00	0.00
157	PAY	100.00	0.00
158	PAY	100.00	0.00
159	PAY	100.00	0.00
160	PAY	100.00	0.00
161	PAY	100.00	0.00
162	PAY	100.00	0.00
163	PAY	100.00	0.00
164	PAY	100.00	0.00
165	PAY	100.00	0.00
166	PAY	100.00	0.00
167	PAY	100.00	0.00
168	PAY	100.00	0.00
169	PAY	100.00	0.00
170	PAY	100.00	0.00
171	PAY	100.00	0.00
172	PAY	100.00	0.00
173	PAY	100.00	0.00
174	PAY	100.00	0.00
175	PAY	100.00	0.00
176	PAY	100.00	0.00
177	PAY	100.00	0.00
178	PAY	100.00	0.00
179	PAY	100.00	0.00
180	PAY	100.00	0.00
181	PAY	100.00	0.00
182	PAY	100.00	0.00
183	PAY	100.00	0.00
184	PAY	100.00	0.00
185	PAY	100.00	0.00
186	PAY	100.00	0.00
187	PAY	100.00	0.00
188	PAY	100.00	0.00
189	PAY	100.00	0.00
190	PAY	100.00	0.00
191	PAY	100.00	0.00
192	PAY	100.00	0.00
193	PAY	100.00	0.00
194	PAY	100.00	0.00
195	PAY	100.00	0.00
196	PAY	100.00	0.00
197	PAY	100.00	0.00
198	PAY	100.00	0.00
199	PAY	100.00	0.00
200	PAY	100.00	0.00
201	PAY	100.00	0.00
202	PAY	100.00	0.00
203	PAY	100.00	0.00
204	PAY	100.00	0.00
205	PAY	100.00	0.00
206	PAY	100.00	0.00
207	PAY	100.00	0.00
208	PAY	100.00	0.00
209	PAY	100.00	0.00
210	PAY	100.00	0.00
211	PAY	100.00	0.00
212	PAY	100.00	0.00
213	PAY	100.00	0.00
214	PAY	100.00	0.00
215	PAY	100.00	0.00
216	PAY	100.00	0.00
217	PAY	100.00	0.00
218	PAY	100.00	0.00
219	PAY	100.00	0.00
220	PAY	100.00	0.00
221	PAY	100.00	0.00
222	PAY	100.00	0.00
223	PAY	100.00	0.00
224	PAY	100.00	0.00
225	PAY	100.00	0.00
226	PAY	100.00	0.00
227	PAY	100.00	0.00
228	PAY	100.00	0.00
229	PAY	100.00	0.00
230	PAY	100.00	0.00

37%

2655

512  
429

1708

~~6427~~  
~~34029~~

October 10.40

1726.000\*

5.000\*

14.900\*

33.000\*

19.000\*

0.036\*

-0.160\*

5.000\*

100.000

-22.500

0.073

0.992

-14.969 )

-0.713

0.120

-74.031

-0.300

-0.043

-29.061

5.85

11.1

110

314

LM



1726.000\*

5.000\*

14.900\*

33.000\*

19.000\*

0.040\*

-0.161\*

4.250\*

70.795

-22.500

0.076

0.992

-18 -16.949

-0.728

0.120

-65 -54.240

-0.288

-0.043

-23 -19.391

6.0  
156

85

CM

211

34744

5

16.8

-28.55

A8(II) juv

-29.2173

Seems weak bird

flines fairly sharp

105-031-4

+3 +9

-100 -017

-3

-12

805



45

023.0	:	A. R
000.82-	:	DEC
000.8-	:	A. R .M
000.55-	:	DEC .M
028.8	:	ЗНАЧАТІ
762	:	ВІДПОДМ
000.0	:	D. VER. .D
201.0	:	(U) 1p
240.0	:	(U) 5p
752.0	:	(U) 8p
845.08-	:	UB
288.23-	:	U
172.0-	:	(V) 1p
284.0	:	(V) 5p
520.8-	:	(V) 8p
124.84-	:	UB
107.71-	:	V
418.0	:	(M) 1p
555.0	:	(M) 5p
562.0-	:	(M) 8p
806.46-	:	MB
879.61-	:	M

R.A. : 5.250  
DEC. : -28.900  
M. R.A. : -3.000  
M. DEC. : -22.000  
DISTANCE : 8.050  
MODULUS : 407  
D. VEL. : 0.000

q1 (U) : 0.105  
q2 (U) : 0.843  
q3 (U) : 0.527  
dU : -89.243  
U : -36.356

q1 (V) : -0.571  
q2 (V) : 0.485  
q3 (V) : -0.662  
dV : -43.451  
V : -17.701

q1 (W) : 0.814  
q2 (W) : 0.232  
q3 (W) : -0.532  
dW : -34.308  
W : -13.976

25174

-191113

5 201

74

76

~~68~~  
89

112514  
112515

(XX)

45-48 92-45  
1212 924  
5 21.9 +34 49 NI II -19 ✓

3528

6657

465 +036(3)

5.64  
4.5  
Σ 10.10 NO  
40.10  
+11.0

6.52 +1.12 +112 3E  
6.10 +0.365  
→ 5.98 +0.325

μ<sub>M</sub> = 46  
13.35  
8.76

μ<sub>V</sub> = +3.58  
8.34 +0.48 +0.08 3E

E = +06

F = 4.25

1002-1050

1307 [1.242] [442] 2.674 (3)

1KM

1059 6 [m] = -0.33  
12 -0.016  
-3  
-45  
5.50  
-15.4

4/10

RAD. VEL. : -12.400  
 MODULUS : 100  
 DISTANCE : 2.000  
 PM. DEC. : -40.000  
 PM. R.A. : -10.000  
 DEC. : 34.000  
 R.A. : 2.350

U : -13.987  
 Ub : 12.837  
 p3 (U) : 0.292  
 p2 (U) : -0.100  
 p1 (U) : 0.082

V : -12.222  
 Vb : -133.022  
 p3 (V) : 0.129  
 p2 (V) : 0.817  
 p1 (V) : -0.242

W : -13.802  
 Wb : -132.979  
 p3 (W) : -0.010  
 p2 (W) : 0.298  
 p1 (W) : 0.828

*Handwritten mark*

R.A. : 5.350  
DEC. : 34.800  
PM. R.A. : -10.000  
PM. DEC. : -40.000  
DISTANCE : 5.000  
MODULUS : 100  
RAD. VEL. : -15.400

q1 (U) : 0.082  
q2 (U) : -0.100  
q3 (U) : 0.992  
dU : 15.837  
U : -13.687

q1 (V) : -0.562  
q2 (V) : 0.817  
q3 (V) : 0.129  
dV : -133.052  
V : -15.292

q1 (W) : 0.823  
q2 (W) : 0.568  
q3 (W) : -0.010  
dW : -139.676  
W : -13.807

*Mb*



R.A. : 5.350  
DEC. : 34.800  
M. R.A. : -3.000  
M. DEC. : -45.000  
DISTANCE : 5.500  
MODULUS : 126  
AD. VEL. : -15.400

q1 (U) : 0.082  
q2 (U) : -0.100  
q3 (U) : 0.992  
dU : 20.443  
U : -12.697

q1 (V) : -0.562  
q2 (V) : 0.817  
q3 (V) : 0.129  
dV : -167.727  
V : -23.102

q1 (W) : 0.823  
q2 (W) : 0.568  
q3 (W) : -0.010  
dW : -130.703  
W : -16.293

284 506 <sup>413</sup> 261 495 2513032 1354

284 506 <sup>413</sup> 261 495

A054066

98 Sep

5 26.1 -20 YF -12.52

11R129 3679 2.79 +0.83 62II w 142712  
-140

575 3303 000 -090 6-C  
-006 -090 N30

6762 11m 3" -6005 -090 N30 +001 -092 FR3  
-002 -090

prof. phosporus 2125 -0001 ± 1.2 -09151.4

10028 1800 W850 14.2  
-886  
4.61  
140

003-9-008.6 -60058 -0876  
-00061 -0869

1103 671 10086  
1121 689 1005-687

1121 689 110 MF

8.48

-208

-5

-87

3

-13.5

65 II

Return

Mu

279

00100244070016

100

250

57

(2)

-2902277

5 26.9 -29 56

red 6.8

BPM 49183

15605 Hz Mg

+0.365 -0.265 BPM

11.68 +0.48 -0.245 2 Eggs

56

+546 5 Ant. Wilson

+524 2 McDermott

+516 1 Brumby

          

+522

1120

1085

+540

5.15

10280 - 265 BPM

48

1870  
1871  
1872  
1873  
1874  
1875  
1876  
1877  
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1894  
1895  
1896  
1897  
1898  
1899  
1900

-29.228\*

5.000\*

26.900\*

-29.000\*

-56.000\*

0.365\*

-0.265\*

5.150\*

107.152

522.000

102-3 162

-0.971

0.516

1169 112

165.055

-1.531

-0.696

520 -612

527.555

53 54 61 53

H1 R1

-29°2277

5 26.9 -29 56

+546 w(5)

w3314

11.7

$S = \frac{1}{5}$

+524 mod(2)

7540

11.59 +54 +1.59 2/10 medium +516.3<sup>5.3</sup> i6

2433

+ .365 - .265

$\pi \approx .01$



950 144 -455 867 +365 -265 +540 132 -269 -1050

-361-131 053 019 -1800 -370 +465.2 467 +464 01

-113 +427 -275

$\boxed{+189 -330 -119}$

-68 +439 -342

045

-53 +439 -342 015

$\boxed{+221 -480 -156}$

36702

5 30 1P2 -38 35.5

FOW G/R

-38.2077

009

+110.0

1288

70005 -025 7+0

756

7006

124

7010-026

+13

-26

9.4

+110

49

M		-45.829
PM		18.883
(M)		-0.255
(M)		0.155
(M)		0.839
M		-139.828
Q		-98.987
(Q)		-0.293
(Q)		0.343
(Q)		-0.245
Q		-45.918
Q		-111.488
B (M)		0.381
B (M)		0.253
B (M)		0.048
MEL		116.888
DULUS		129.888
TANCE		0.488
DEC		13.888
R.A.		13.888
DEC		-32.888
R.A.		12.888

574 922  
 116  
 LUE JR  
 20698  
 20698  
 116

Faint mirrored text from the reverse side of the paper, including "LUE JR" and "20698".

Handwritten notes on lined paper, including a red vertical line on the right side.

Handwritten calculations on a separate piece of paper:

	36702.000*
	5.000*
	30.200*
	-38.000*
	-35.000*
	0.010*
	-0.026*
9.2	10.500*
692	1258.925
	111.000
	-0.112
	0.382
-34	-98.061
	-0.068
	-0.763
-132	-170.665
50	0.010
	-0.521

37107

5 012 104 OF 08/5027

64454

6 band yields 02

MSM

37107

5 31.2

-6408

63154087

64454

22



3 2290

4 569

11 22

Feb 11 30

- 61.357

Slightly weak market, 6 bond yields Feb 17

$\rho$  (Feb 17) - 0.144

-0.96 + 148 =

-0.89 + 150 =

-0.92 + 149

-0.87 + 145

-0.128 + 159 =

- 3

- 11

-0.128 + 148

-0.124 + 150

- 182

+ 148

4

R.A.	:	4.900
DEC.	:	-28.650
R.A.	:	188.000
DEC.	:	-228.000
TANCE	:	1.270
DULUS	:	18
VEL.	:	12.500
1 (U)	:	0.184
2 (U)	:	0.835
3 (U)	:	0.515
NP	:	-75
U	:	

008.8 : R.A.  
058.85 : DEL.  
000.000 : R.A.  
000.832 : DEL.  
1.270 : TANK  
18 : BULL  
12.500 : VEL.  
0.184 : (U)  
0.832 : (U)  
0.270 : (U)

K. : 178.000  
 DEC. : -236.000  
 PM. R.A. : 4.800  
 DISTANCE : 91  
 MODULUS : 12.500  
 RAD. VEL. :

q1 (U) : 0.184  
 q2 (U) : 0.835  
 q3 (U) : 0.519  
 dU : -797.731  
 U : -66.264

q1 (W) : -0.600  
 q2 (W) : 0.513  
 q3 (W) : -0.513  
 dW : -1018.921  
 W : -100.591

q1 (M) : 0.778  
 q2 (M) : 0.199  
 q3 (M) : -0.595  
 dM : 353.586  
 M : 24.805

37

R.A. : 178.000  
 DEC. : -236.000  
 R.A. : 4.800  
 DEC. : -236.000  
 DISTANCE : 91  
 MODULUS : 12.500  
 RAD. VEL. :

q1 (U) : 0.184  
 q2 (U) : 0.835  
 q3 (U) : 0.519  
 dU : -797.731  
 U : -66.264

q1 (W) : -0.600  
 q2 (W) : 0.513  
 q3 (W) : -0.513  
 dW : -1018.921  
 W : -100.591

q1 (M) : 0.778  
 q2 (M) : 0.199  
 q3 (M) : -0.595  
 dM : 353.586  
 M : 24.805

4.900  
-28.650  
009.82

15.000  
405  
000.0-  
615.0  
615.0  
100.8101-X  
100.001-

R.A. : 5.500  
DEC. : -38.600  
R.A. : 13.000  
DEC. : -26.000  
RANGE : 9.400  
MODULUS : 759  
VEL. : 110.000

1 (U) : 0.048  
2 (U) : 0.923  
3 (U) : 0.381  
dU : -111.486  
U : -42.616

9.86

121  
1480

1 (V) : -0.547  
2 (V) : 0.343  
3 (V) : -0.763  
dV : -68.687  
V : -136.058

3965

1 (W) : 0.836  
2 (W) : 0.172  
3 (W) : -0.522  
dW : 18.983  
W : -42.973

49

→ 52077

36702

5

3.0.2

- 38 35

5.34 922 416 -322

10.5

111

+0005 ~ 025 YHL  
F04

+0005

+010-026

156

50