

005073

SUMMARY REPORT FOR  
BODY-04-DS  
DY PILOT HOLE

WEEK ENDING SEPTEMBER 21, 1990

FOR: GREGG JILSON  
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September 20, 1990

### INTRODUCTION

Diamond drill hole 90DY-04-DS had reached a cored depth of 1686' as of 5:30 pm September 20, 1990. With the current data collected with the Sperry Sun single shot equipment the hole is estimated to be at or very near the eight foot radius established as the window of acceptance for this hole.

### STATUS

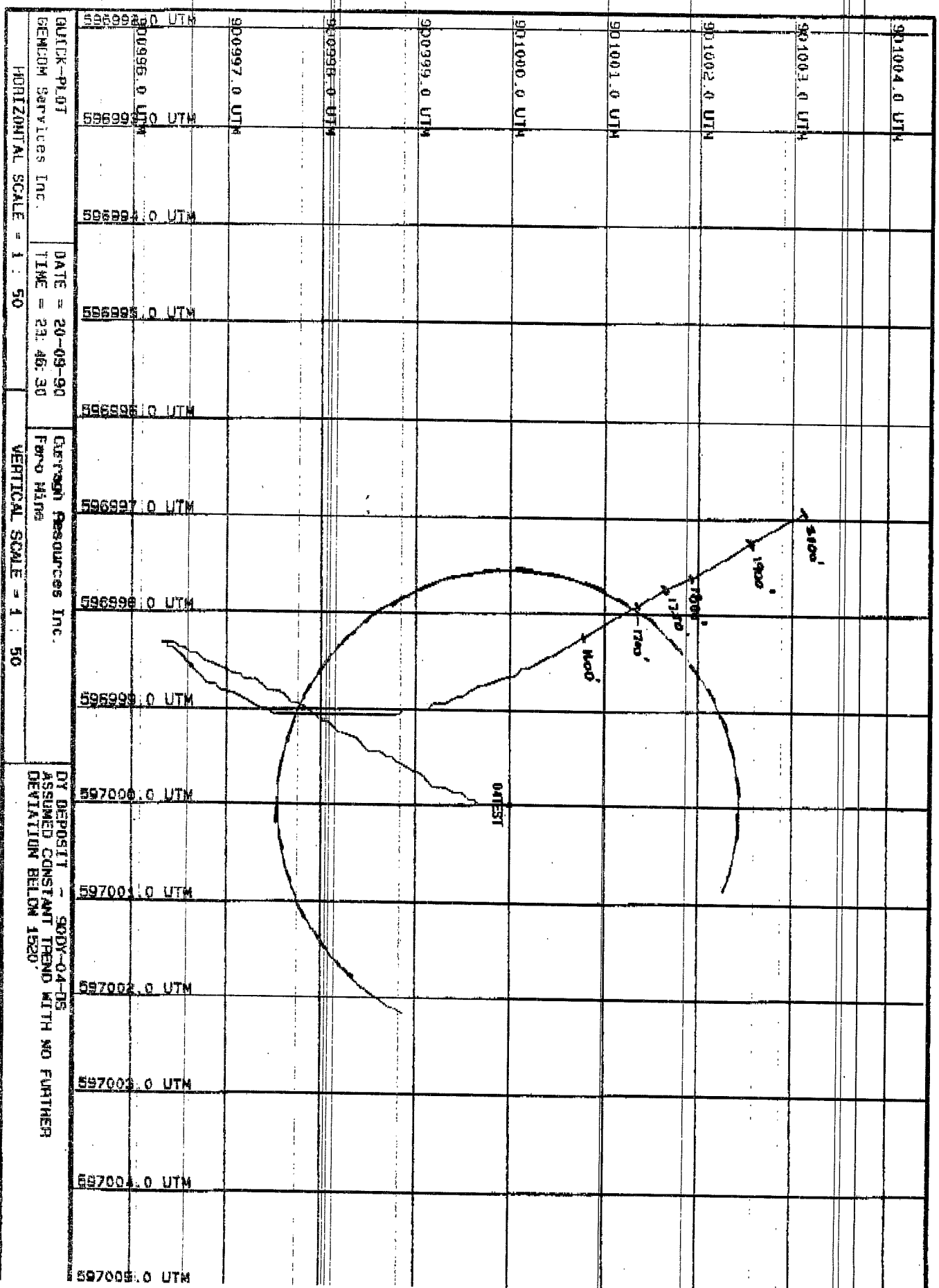
Significant occurrences of pyrrhotite have been encountered sporadically throughout the cored interval from 775' to 1675'. Although extreme care has been taken in selecting the single shot test locals, the possibility of the magnetic influence of the pyrrhotite causes concern as to the exact location and more importantly the orientation of the hole. All survey data to date is outlined in table 1. The current trace of the drill hole as defined by the Sperry Sun single shot data is on figure 1. A gyroscopic survey will be run to confirm the hole location the trend. This survey is scheduled to be run Friday September 21, 1990. Once the hole location and trend is established confidence in orienting the down hole motor can be achieved.

As of 8:30 pm September 20, 1990 Mike Cole, the operator of the down hole was uncertain of his availability concerning the next motor cut in the Dy Pilot Hole. He expects to confirm his date of arrival in Faro September 21, 1990. The gyroscopic survey results will establish our requirements for his services. It is anticipated that his services will be needed shortly.

The trajectory of the next motor cut has not yet been established. Once the gyroscopic survey has been completed and the results interpreted, a trajectory can then be calculated. The general trend for this cut will be southeasterly. Previous drilling on the Dy property indicates a strong tendency for holes to deviate to the northwest. This trend has been noted in the cored interval from 775' to 1686' in 90DY-04-DS. It is expected that this deviation pattern will influence future coring below this second down hole motor cut. The anticipated course of deviation for the next coring interval is to steepen in inclination and to swing approximately through vertical and then trend northwest. This anticipated trend could be significantly complicated should the actual trend be a rotation in azimuth to the northwest with no change in inclination.









Should the possibility of Mike Cole's arrival be delayed and the results of the gyroscopic survey indicate we have passed through the eight foot window, further coring would cause an estimated horizontal displacement of 1.7 feet per 100 feet drilled. The current drill rate is approximated 100 to 120 feet per 24hrs. This horizontal displacement is calculated assuming -89 degrees in inclination. Should the inclination be -88.5 degrees the horizontal displacement will be an estimated 2.6 feet per 100 feet drilled. It may therefore be necessary to halt coring until the hole trajectory can be corrected. Should the gyroscope indicate a progressive shallowing trend of the hole, further coring will cause further shallowing of the hole. A further decrease in inclination of the hole will require a greater interval to be motored before the desired trajectory can be achieved.

Core logging and relogging of the three shallow holes drilled on the Dy Property during the 1990 season has been completed. The holes have also been photographed wet and dry. Core logging of 90DY-04-DS has been completed to approximately 1000'. Core from this hole has been photographed to an estimated 400'. With power and heat now established in the core shack logging the remaining core will occur at a rapid pace. The outlook for relogging 78X-05 and 78X-10 is not optimistic in the near future. The expectation of additional drilling on the Dy Property during the 1990 season will conflict with this procedure. Since most of the core from the 1978 holes have been laid out, etched with 20% HCl and washed thoroughly logging of these two holes will be attempted intermitantly. The complete logging of these holes may not occur until completion of the 1990 Dy drilling.....season and sanity dependant.

No lithologic nor geotechnical data exists for the interval 672' to 775' in 90DY-04-DS. This interval was drilled with the down hole motor. A second cut with the down hole motor is imminent and no lithologic data nor geotechnical data will exit for this interval either. Should this data be essential a wedge can be set above each of these missing intervals and core recovered from the volume within the eight foot radius of the collar. This should be given consideration if the data is required.

## SUMMARY

Coring will continue through Thursday night and Friday morning. As soon as the gyroscopic survey equipment arrives on site coring will cease. It is anticipated that the hole could be at approximately 1750' by that time. Figure 2 indicates the projected hole trace assuming no further deviation from the last survey point (I consider this over optimistic). Should the gyroscopic survey confirm the single shot data, the hole will be an estimated 9.0 feet from the collar at 1750'. Further coring will greatly increase this horizontal displacement as shown in table 1 and figure 2. The drill may have to be shut down should this be the case. Gregg, I will contact you prior to and after the gyro survey to discuss our options.

Sincerely yours,



John Zbeetnoff

CURRENT TREND DATA FOR 30DY-04-DS:  
SURVEYS UP TO SEPT. 30, 1990

TABLE 1  
... cont'd

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| SURVEY TYPE                   | DEPTH (FT.) | AZIMUTH | INCLINATION | CO-ORDS  |         | HORIZONTAL DEVIATION |
|-------------------------------|-------------|---------|-------------|----------|---------|----------------------|
|                               |             |         |             | NORTHING | EASTING |                      |
| GYROSCOPE                     | 0           | 183.20  | 89.56       | 0        | 0       | 0.00                 |
| GYROSCOPE                     | 25          | 178.88  | 89.45       | -0.22    | 0       | 0.22                 |
| GYROSCOPE                     | 50          | 178.40  | 89.50       | -0.45    | 0.62    | 0.45                 |
| GYROSCOPE                     | 75          | 189.00  | 89.50       | -0.67    | 0.01    | 0.67                 |
| GYROSCOPE                     | 100         | 186.40  | 89.36       | -0.92    | -0.05   | 0.92                 |
| GYROSCOPE                     | 125         | 199.30  | 89.21       | -1.22    | -0.14   | 1.23                 |
| GYROSCOPE                     | 150         | 203.60  | 89.13       | -1.56    | -0.28   | 1.56                 |
| GYROSCOPE                     | 175         | 198.70  | 89.07       | -1.93    | -0.42   | 1.96                 |
| GYROSCOPE                     | 200         | 198.80  | 89.10       | -2.31    | -0.56   | 2.38                 |
| GYROSCOPE                     | 225         | 210.30  | 89.15       | -2.68    | -0.71   | 2.74                 |
| GYROSCOPE                     | 250         | 211.20  | 89.00       | -3       | -0.92   | 3.14                 |
| GYROSCOPE                     | 275         | 209.10  | 88.77       | -3.43    | -1.17   | 3.82                 |
| GYROSCOPE                     | 300         | 210.60  | 88.73       | -3.9     | -1.44   | 4.16                 |
| GYROSCOPE                     | 325         | 207.70  | 88.71       | -4.39    | -1.71   | 4.71                 |
| GYROSCOPE                     | 350         | 203.80  | 88.68       | -4.91    | -1.96   | 5.29                 |
| GYROSCOPE                     | 375         | 211.20  | 88.87       | -5.42    | -2.23   | 5.86                 |
| GYROSCOPE                     | 400         | 212.30  | 88.66       | -5.92    | -2.50   | 6.44                 |
| GYROSCOPE                     | 425         | 209.70  | 88.60       | -6.42    | -2.83   | 7.02                 |
| GYROSCOPE                     | 450         | 213.40  | 88.78       | -6.89    | -3.12   | 7.56                 |
| GYROSCOPE                     | 475         | 213.50  | 88.71       | -7.35    | -3.43   | 8.11                 |
| GYROSCOPE                     | 500         | 209.70  | 88.70       | -7.83    | -3.72   | 8.67                 |
| GYROSCOPE                     | 525         | 206.80  | 88.56       | -8.30    | -4.01   | 9.27                 |
| GYROSCOPE                     | 550         | 202.80  | 88.52       | -8.84    | -4.27   | 9.91                 |
| GYROSCOPE                     | 575         | 201.50  | 88.68       | -9.5     | -4.5    | 10.61                |
| GYROSCOPE                     | 600         | 204.10  | 88.52       | -10.07   | -4.74   | 11.13                |
| GYROSCOPE                     | 625         | 202.00  | 88.54       | -10.66   | -5      | 11.77                |
| GYROSCOPE                     | 627         | 203.80  | 88.55       | -10.84   | -5.12   | 12.08                |
| SPERRY SUN IOL/6 Deg. COMPASS | 703         | 200.00  | 89.42       | -11.94   | -5.68   | 13.19                |
| SPERRY SUN IOL/6 Deg. COMPASS | 723         | 11.00   | 89.90       | -12.91   | -5.82   | 13.26                |
| SPERRY SUN IOL/6 Deg. COMPASS | 737         | 39.00   | 89.78       | -11.96   | -5.5    | 13.22                |
| SPERRY SUN IOL/6 Deg. COMPASS | 753         | 51.00   | 89.08       | -11.88   | -5.48   | 13.08                |
| SPERRY SUN IOL/6 Deg. COMPASS | 763         | 51.00   | 89.17       | -11.78   | -5.36   | 13.04                |
| SPERRY SUN IOL/6 Deg. COMPASS | 773         | 38.00   | 89.92       | -11.66   | -5.25   | 12.79                |
| SPERRY SUN IOL/6 Deg. COMPASS | 783         | 38.00   | 89.00       | -11.51   | -5.14   | 12.61                |
| SPERRY SUN IOL/6 Deg. COMPASS | 793         | 48.00   | 88.97       | -11.38   | -5.02   | 12.44                |
| SPERRY SUN IOL/6 Deg. COMPASS | 812         | 38.00   | 88.94       | -10.78   | -4.42   | 11.60                |
| SPERRY SUN IOL/6 Deg. COMPASS | 823         | 31.00   | 89.02       | -10.13   | -4      | 10.89                |
| SPERRY SUN IOL/6 Deg. COMPASS | 872         | 19.00   | 88.83       | -8.89    | -3.34   | 9.31                 |
| SPERRY SUN IOL/6 Deg. COMPASS | 1003        | 13.00   | 88.96       | -8.14    | -3.17   | 8.74                 |
| SPERRY SUN IOL/6 Deg. COMPASS | 1033        | 268.00  | 88.92       | -7.55    | -3.25   | 8.29                 |
| SPERRY SUN IOL/6 Deg. COMPASS | 1073        | 3.00    | 89.26       | -6.89    | -3.28   | 7.83                 |
| SPERRY SUN IOL/6 Deg. COMPASS | 1091        | 7.00    | 89.15       | -6.89    | -3.28   | 7.83                 |
| SPERRY SUN IOL/6 Deg. COMPASS | 1167.5      | 350     | 89          | -5.58    | -2.95   | 6.31                 |
| SPERRY SUN IOL/6 Deg. COMPASS | 1209        | 357     | 88.17       | -4.89    | -2.95   | 5.48                 |
| SPERRY SUN IOL/6 Deg. COMPASS | 1259        | 354     | 88.14       | -3.84    | -2.95   | 4.92                 |
| SPERRY SUN IOL/6 Deg. COMPASS | 1326        | 350     | 89          | -2.95    | -3.28   | 4.41                 |
| SPERRY SUN IOL/6 Deg. COMPASS | 1359        | 338     | 89          | -2.62    | -3.61   | 4.48                 |

... Table 1

CURRENT TREND DATA FOR 90DY-04-D5:  
 SURVEYS UP TO SEPT. 20, 1990

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| SURVEY TYPE            |                | DEPTH<br>(FT.) | AZIMUTH INCLINATION |       | CO-ORDS  |         | HORIZONTAL<br>DEVIATION |
|------------------------|----------------|----------------|---------------------|-------|----------|---------|-------------------------|
|                        |                |                |                     |       | NORTHING | EASTING |                         |
| SPIERRY SUN IOL/6 Deg. | COMPASS        | 1409           | 338                 | 88.78 | -1.84    | -3.61   | 3.86                    |
| SPIERRY SUN IOL/6 Deg. | COMPASS        | 1495.5         | 339                 | 88.62 | -0.88    | -3.94   | 4.06                    |
| SPIERRY SUN IOL/6 Deg. | COMPASS        | 1493           | 340                 | 88.71 | 0.33     | -4.59   | 4.60                    |
| SPIERRY SUN IOL/6 Deg. | COMPASS        | 1513           | 331                 | 88.74 | 0.88     | -4.59   | 4.64                    |
| PROJECTED WITH ASSUMED | CONSTANT TREND | 1800           | 331                 | 88.74 | 2.82     | -5.58   | 6.16                    |
| PROJECTED WITH ASSUMED | CONSTANT TREND | 1700           | 331                 | 88.74 | 4.27     | -6.89   | 8.10                    |
| PROJECTED WITH ASSUMED | CONSTANT TREND | 1900           | 331                 | 88.74 | 6.23     | -7.87   | 10.04                   |
| PROJECTED WITH ASSUMED | CONSTANT TREND | 1900           | 331                 | 88.74 | 8.53     | -8.86   | 12.30                   |
| PROJECTED WITH ASSUMED | CONSTANT TREND | 2000           | 331                 | 88.74 | 10.17    | -10.17  | 14.38                   |