

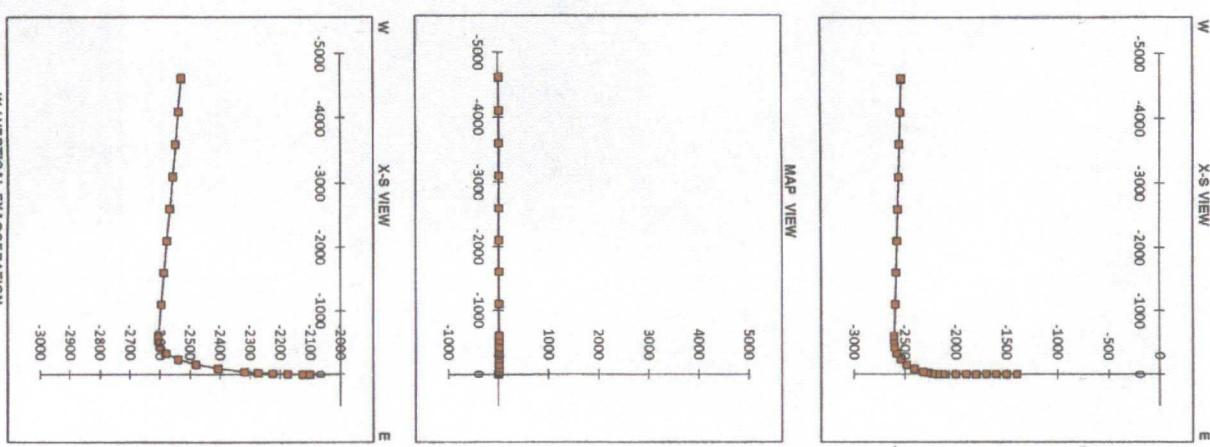
Nadel and Gussman HEVCO
HORIZONTAL WORKSHEET

DATE
7/30/12

WELL NAME: Cannonball #1H
SURFACE LOCATION: 2310 FNL & 330 FEL
SEC TOWNSHIP RANGE: 20 TNS 26E
TARGET DEPTH: 2525 FT TWD @ TD
TARGET ASPECTH: 270 DEGREES
PLANNED HZ LENGTH: 4620 FT
PLANNED KOP: 2125 FT TWD

BEGINNING SURVEY
COMPANY: 0
DEPTH FROM TO SURVEY TYPE: 0
0 FT 0 FT

| MEASURED DEPTH (ft) | TIE IN POINT | MD (ft) | INCL (degrees) | HOLE AZIMUTH (degrees) | COURSE (degrees) | TOTAL LENGTH (ft) | T.V.D. (ft) | VERT SEC (ft) | COORDINATES (N+/-E) (ft) | | | CLOSURE (ft) | DOBLEG RATE | BUILD | VERT | TVD | ROB | +E/W | +N/S | | | | |
|--------------------------------|--------------|------------|-------------------|------------------------------|---------------------|-------------------------|----------------|------------------|--------------------------------|-----------------|------------------|-----------------|----------------|--------|-----------|------|---------|-------|-------|-------|-------|-------|---|
| | | | | | | | | | INCL (degrees) | AZIMUTH (ft) | VERT SEC (ft) | | | | | | | | | | | | |
| 1500.0 | 0.3 | 45.0 | 100.0 | 1500.0 | -0.2 | 0.1 | 0.2 | 0.2 | 0.5 | 0.5 | 0.7 | 0.1 | 0.1 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 1600.0 | 0.3 | 30.0 | 100.0 | 1600.0 | -0.5 | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 0.9 | 0.1 | 0.1 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 1700.0 | 0.4 | 10.0 | 100.0 | 1700.0 | -0.7 | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.3 | 0.1 | 0.1 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 1800.0 | 0.4 | 250.0 | 100.0 | 1800.0 | -0.9 | 0.9 | 0.9 | 1.2 | 1.2 | 1.2 | 1.5 | 0.1 | 0.1 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 1900.0 | 0.5 | 330.0 | 100.0 | 1900.0 | -0.2 | 1.1 | 0.2 | 1.1 | 1.1 | 1.1 | 1.5 | 0.1 | 0.1 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2000.0 | 0.5 | 310.0 | 100.0 | 2000.0 | 0.3 | 1.7 | -0.3 | 1.8 | 0.2 | 0.2 | 0.1 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2100.0 | 0.6 | 280.0 | 100.0 | 2100.0 | 1.1 | 2.2 | -1.1 | 2.5 | 0.2 | 0.2 | 0.1 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2125.0 | 0.6 | 270.0 | 25.0 | 2125.0 | 1.3 | 2.2 | -1.3 | 2.6 | 0.2 | 0.2 | 0.1 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2175.0 | 6.0 | 320.0 | 25.0 | 2174.9 | 3.9 | 3.4 | -3.9 | 5.2 | 11.3 | 10.8 | 10.8 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2225.0 | 12.0 | 300.0 | 50.0 | 2224.2 | 9.8 | 8.4 | -9.8 | 12.9 | 13.4 | 12.0 | 12.0 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2275.0 | 18.0 | 280.0 | 60.0 | 2272.5 | 21.9 | -21.9 | 25.4 | 17.7 | 12.0 | 12.0 | 12.0 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2325.0 | 24.0 | 270.0 | 50.0 | 2319.2 | 39.7 | 14.4 | -39.7 | 42.3 | 13.9 | 12.0 | 12.0 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2425.0 | 36.0 | 270.0 | 100.0 | 2405.6 | 89.6 | 14.4 | -89.6 | 90.8 | 12.0 | 12.0 | 12.0 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2525.0 | 48.0 | 270.0 | 100.0 | 2479.8 | 156.4 | 14.4 | -156.4 | 157.1 | 12.0 | 12.0 | 12.0 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2625.0 | 60.0 | 270.0 | 100.0 | 2538.5 | 237.2 | 14.4 | -237.2 | 237.6 | 12.0 | 12.0 | 12.0 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2725.0 | 72.0 | 270.0 | 100.0 | 257.1 | 328.4 | 14.4 | -328.4 | 328.7 | 12.0 | 12.0 | 12.0 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| 2825.0 | 84.0 | 270.0 | 100.0 | 269.8 | 426.0 | 14.4 | -426.0 | 426.3 | 12.0 | 12.0 | 12.0 | 0 | 0 | 426.13 | 14.385739 | 12.0 | -426.13 | -5000 | -4000 | -3000 | -2000 | -1000 | 0 |
| Nadel and Gussman HEVCO | | | | | | | | | | | | | | | | | | | | | | | |
| Cannonball #1H | | | | | | | | | | | | | | | | | | | | | | | |
| Survey Type: 0 | | | | | | | | | | | | | | | | | | | | | | | |
| 7/30/12 | | | | | | | | | | | | | | | | | | | | | | | |



Oil Conservation Division

Case No. 15

Exhibit No. 15