

Gardner #1 30-045-11123  
Gardner #1C 30-045-27982

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO  
(Submit 3 copies to OCD Aztec Office)

Operator Koch Exploration Company Location: Unit M Sec. 35 Twp 32N Rng 9W  
Name of Well/Wells or Pipeline Serviced Gardner 1 and Gardner 1C

Elevation 6610 Completion Date 11-9-96 Total Depth 400' Land Type\* F  
Casing, Sizes, Types & Depths 10" Schedule 40 PVC to 20'

If Casing is cemented, show amounts & types used 8 bags Portland Cement

If Cement or Bentonite Plugs have been placed, show depths & amounts used  
NA

Depths & thickness of water zones with description of water when possible:  
Fresh, Clear, Salty, Sulphur, Etc. 200', clear water (1 gpm)

Depths gas encountered: None

Type & amount of coke breeze used: 7500 lbs of Loresco SC-2 coke

Depths anodes placed: 370', 350', 330', 305', 290', 270', 250', 240', 200', and 190'

Depths vent pipes placed: 400' to surface (1" sch 40 pvc)

Vent pipe perforations: 400' - 200'

Remarks: \_\_\_\_\_

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fec.  
If Federal or Indian, add Lease Number.

RECEIVED  
NOV 27 1996

OIL CON. DIV.  
DIST. 3

TIERRA DYNAMIC COMPANY  
GROUNDBED DRILLING LOG

LOCATION: Garner #1 + #C1 DATE: 11-9-96  
COMPANY: Koch Exploration Co STATE: NM  
COUNTY: S.J. LOCATION: \_\_\_\_\_  
WELL DEPTH: 400 ft. DIAMETER: 10 in.  
CASING: 10 in. DEPTH: 20 ft.

|         |           |
|---------|-----------|
| 0-80    | Sandstone |
| 80-165  | Shale     |
| 165-185 | Sandstone |
| 185-205 | Shale     |
| 205-230 | Sandstone |
| 230-245 | Shale     |
| 245-280 | Sandstone |
| 280-300 | Shale     |
| 300-400 | Sandstone |
| 400     | T.D.      |

## CPS GROUND BED CONSTRUCTION WORKSHEET

|      |                          |                     |
|------|--------------------------|---------------------|
| SPR# | P/L NAME (S), NUMBER (S) |                     |
|      | Koch Garner #1 + C1      |                     |
| JO # | TOTAL                    | VCLTS 11,16         |
|      |                          | AMPS 13.6           |
|      |                          | = OHMS .82          |
|      |                          | DATE 11-9-96        |
|      |                          | NAME Jack Ledbetter |

REMARKS (NOTES FOR CONSTRUCTION LOG)

Drill 14" hole and set 20' of 10" PVC casing and cement (8 Bags)

Drill 10" hole 20' - 400' and run 10 graphite anodes and 7500 lbs

loresco SC-2 Coke breeze pumped in hole

H<sub>2</sub>O @ 200' (1gpm)

| DEPTH | LOG ANODE | ANODE # | DEPTH | LOG ANODE | ANODE # | DEPTH | LOG ANODE | ANODE # | DEPTH | LOG ANODE | ANODE # |
|-------|-----------|---------|-------|-----------|---------|-------|-----------|---------|-------|-----------|---------|
| 100   |           |         | 295   |           |         | 490   |           |         | 685   |           |         |
| 105   |           |         | 300   | 1.4       | -4      | 495   |           |         | 690   |           |         |
| 110   |           |         | 305   |           |         | 500   |           |         | 695   |           |         |
| 115   |           |         | 310   | .9        | -4      | 505   |           |         | 700   |           |         |
| 120   |           |         | 315   |           |         | 510   |           |         | ANODE | DEPTH     | NO      |
| 125   |           |         | 320   | .8        | -       | 515   |           |         | #     | COKE      | FUL     |
| 130   |           |         | 325   |           |         | 520   |           |         | 1     | 370       | 1.3     |
| 135   |           |         | 330   | .9        | 3       | 525   |           |         | 2     | 350       | .4      |
| 140   | 1.0       |         | 335   |           |         | 530   |           |         | 3     | 330       | .7      |
| 15    |           |         | 340   | .4        |         | 535   |           |         | 4     | 305       | 1.2     |
| 30    | 1.4       |         | 345   |           |         | 540   |           |         | 5     | 290       | 1.6     |
| 155   |           |         | 350   | .4        | -2      | 545   |           |         | 6     | 270       | .4      |
| 160   | 1.9       |         | 355   |           |         | 550   |           |         | 7     | 250       | .6      |
| 165   |           |         | 360   | .4        |         | 555   |           |         | 8     | 240       | 1.8     |
| 170   | .6        |         | 365   |           |         | 560   |           |         | 9     | 200       | .9      |
| 175   |           |         | 370   | 1.5       | 1       | 565   |           |         | 10    | 190       | 1.7     |
| 180   | .9        |         | 375   |           |         | 570   |           |         | 11    |           |         |
| 185   |           |         | 380   | 380       | T.D.    | 575   |           |         | 12    |           |         |
| 190   | 1.9       | 10      | 385   |           |         | 580   |           |         | 13    |           |         |
| 195   |           |         | 390   |           |         | 585   |           |         | 14    |           |         |
| 200   | 1.4       | 9       | 395   |           |         | 590   |           |         | 15    |           |         |
| 205   |           |         | 400   |           |         | 595   |           |         | 16    |           |         |
| 210   | .3        |         | 405   |           |         | 600   |           |         | 17    |           |         |
| 215   |           |         | 410   |           |         | 605   |           |         | 18    |           |         |
| 220   | .5        |         | 415   |           |         | 610   |           |         | 19    |           |         |
| 225   |           |         | 420   |           |         | 615   |           |         | 20    |           |         |
| 230   | .4        | 2       | 425   |           |         | 620   |           |         | 21    |           |         |
| 235   |           |         | 430   |           |         | 625   |           |         | 22    |           |         |
| 240   | 1.5       | 8       | 435   |           |         | 630   |           |         | 23    |           |         |
| 245   |           |         | 440   |           |         | 635   |           |         | 24    |           |         |
| 250   | .7        | 7       | 445   |           |         | 640   |           |         | 25    |           |         |
| 255   |           |         | 450   |           |         | 645   |           |         | 26    |           |         |
| 260   | .3        |         | 455   |           |         | 650   |           |         | 27    |           |         |
| 265   |           |         | 460   |           |         | 655   |           |         | 28    |           |         |
| 270   | 1.4       | 6       | 465   |           |         | 660   |           |         | 29    |           |         |
| 275   |           |         | 470   |           |         | 665   |           |         | 30    |           |         |
| 280   | 1.5       |         | 475   |           |         | 670   |           |         |       |           |         |
| 285   |           |         | 480   |           |         | 675   |           |         |       |           |         |
| 290   | 1.7       | 5       | 485   |           |         | 680   |           |         |       |           |         |

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO  
(Submit 3 copies to OCD Aztec Office)

Operator Koch Exploration Company Location: Unit M Sec. 35 Twp 32N Rng 9W  
Name of Well/Wells or Pipeline Serviced Gardner 1 and Gardner 1C

Elevation 6610 Completion Date 11-9-96 Total Depth 400' Land Type\* F  
Casing, Sizes, Types & Depths 10" Schedule 40 PVC to 20'

If Casing is cemented, show amounts & types used 8 bags Portland Cement

If Cement or Bentonite Plugs have been placed, show depths & amounts used  
NA

Depths & thickness of water zones with description of water when possible:  
Fresh, Clear, Salty, Sulphur, Etc. 200', clear water (1 gpm)

Depths gas encountered: None

Type & amount of coke breeze used: 7500 lbs of Loresco SC-2 coke

Depths anodes placed: 370', 350', 330', 305', 290', 270', 250', 240', 200', and 190'

Depths vent pipes placed: 400' to surface (1" sch 40 pvc)

Vent pipe perforations: 400' - 200'

Remarks: \_\_\_\_\_

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.

RECEIVED  
NOV 27 1996

OIL CON. [ ]  
DIST. 3

TIERRA DYNAMIC COMPANY  
GROUNDBED DRILLING LOG

LOCATION: Garner #1 + #C1 DATE: 11-9-96  
COMPANY: Koch Exploration Co STATE: NM  
COUNTY: S.J. LOCATION: \_\_\_\_\_  
WELL DEPTH: 400 ft. DIAMETER: 10 in.  
CASING: 10 in. DEPTH: 20 ft.

|                          |                           |
|--------------------------|---------------------------|
| <u>0-80 Sandstone</u>    |                           |
| <u>80-165 Shale</u>      |                           |
| <u>165-185 Sandstone</u> |                           |
| <u>185-205 Shale</u>     | <u>Water (200') 1 gpm</u> |
| <u>205-230 Sandstone</u> |                           |
| <u>230-245 Shale</u>     |                           |
| <u>245-280 Sandstone</u> |                           |
| <u>280-300 Shale</u>     |                           |
| <u>300-400 Sandstone</u> |                           |
| <u>400</u>               | <u>T.D.</u>               |

## Contractors of Cathodic Protection Services

## CPS GROUND BED CONSTRUCTION WORKSHEET

|      |                                                |       |      |        |         |                |
|------|------------------------------------------------|-------|------|--------|---------|----------------|
| IPB# | P/L NAME(S), NUMBER(S)<br>Koch Gardner #1 + C1 |       |      |        |         |                |
| JO # | TOTAL                                          | VOLTS | AMPS | = OHMS | DATE    | NAME           |
|      |                                                | 11.16 | 3.6  | 82     | 11-9-96 | Jack Ledbetter |

REMARKS (notes for construction log)  
Drill 14" hole and set 20' of 10" PVC casing and cement (8 Bags)

Drill 10" hole 20' - 400' and run 10 graphite anodes and 7500 lbs

Locesco SC-2 Coke breeze pumped in hole

H<sub>2</sub>O @ 200' (1 gpm)

| DEPTH | LOG ANODE | ANODE # | DEPTH | LOG ANODE | ANODE # | DEPTH | LOG ANODE | ANODE # | DEPTH          | LOG ANODE | ANODE # |
|-------|-----------|---------|-------|-----------|---------|-------|-----------|---------|----------------|-----------|---------|
| 100   |           |         | 295   |           |         | 490   |           |         | 685            |           |         |
| 105   |           |         | 300   | 1.4       | -4      | 495   |           |         | 690            |           |         |
| 110   |           |         | 305   |           |         | 500   |           |         | 695            |           |         |
| 115   |           |         | 310   | .9        | 4       | 505   |           |         | 700            |           |         |
| 120   |           |         | 315   |           |         | 510   |           |         | ANODE DEPTH NO | FUL       |         |
| 125   |           |         | 320   | .8        | -       | 515   |           |         | # COKE COKE    |           |         |
| 130   |           |         | 325   |           |         | 520   |           |         | 1 370 1.3      | 3.2       |         |
| 135   |           |         | 330   | .9        | 3       | 525   |           |         | 2 350 .4       | 3.8       |         |
| 140   | 1.0       |         | 335   |           |         | 530   |           |         | 3 330 .7       | 4.3       |         |
| 145   |           |         | 340   | .4        |         | 535   |           |         | 4 305 1.2      | 5.6       |         |
| 150   | 1.4       |         | 345   |           |         | 540   |           |         | 5 290 1.6      | 6.3       |         |
| 155   |           |         | 350   | .4        | -2      | 545   |           |         | 6 270 .4       | 5.1       |         |
| 160   | 1.9       |         | 355   |           |         | 550   |           |         | 7 250 .6       | 5.2       |         |
| 165   |           |         | 360   | .4        |         | 555   |           |         | 8 240 1.8      | 5.5       |         |
| 170   | .6        |         | 365   |           |         | 560   |           |         | 9 200 .9       | 5.4       |         |
| 175   |           |         | 370   | 1.5       | 1       | 565   |           |         | 10 190 1.7     | 5.9       |         |
| 180   | .9        |         | 375   |           |         | 570   |           |         | 11             |           |         |
| 185   |           |         | 380   | 3.80      | T.O.    | 575   |           |         | 12             |           |         |
| 190   | 1.9       | 10      | 385   |           |         | 580   |           |         | 13             |           |         |
| 195   |           |         | 390   |           |         | 585   |           |         | 14             |           |         |
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| 215   |           |         | 410   |           |         | 605   |           |         | 18             |           |         |
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| 275   |           |         | 470   |           |         | 665   |           |         | 30             |           |         |
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| 285   |           |         | 480   |           |         | 675   |           |         |                |           |         |
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Depths gas encountered: None

Type & amount of coke breeze used: 7500 lbs of Loresco SC-2 coke

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Remarks: \_\_\_\_\_

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If Federal or Indian, add Lease Number.

RECEIVED  
NOV 27 1996  
OIL CON. DIV.  
DIST. 2

TIERRA DYNAMIC COMPANY  
GROUNDBED DRILLING LOG

LOCATION: Garner #1 + #C1 DATE: 11-9-96  
COMPANY: Koch Exploration Co STATE: NM  
COUNTY: S.J. LOCATION: \_\_\_\_\_  
WELL DEPTH: 400 ft. DIAMETER: 10 in.  
CASING: 10 in. DEPTH: 20 ft.

|         |           |
|---------|-----------|
| 0-80    | Sandstone |
| 80-165  | Shale     |
| 165-185 | Sandstone |
| 185-205 | Shale     |
| 205-230 | Sandstone |
| 230-245 | Shale     |
| 245-280 | Sandstone |
| 280-300 | Shale     |
| 300-400 | Sandstone |
| 400     | T.D.      |

CPS GROUND BED CONSTRUCTION WORKSHEET

| NAME           | DATE    | TIME | LOCATION | REMARKS         |
|----------------|---------|------|----------|-----------------|
| JACK L. DUBOIS | 11-9-96 | 8:20 | 11/16    | AMPS/3.6 = 0.82 |

Drill 14" hole and set 20' of 10" PVC casing and cement (8 bags)  
Drill 10" hole 20' - 400' and run 10 graphite anodes and 7500 lbs  
Locsco SC-2 (core barrel pumped in hole)  
NaO @ 200' (1 ppm)

[illegible]