

970

8

30-045-22976

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator TENNECO Location: Unit NW Sec. 32 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced EPNG COM B #3Acps 145lwElevation 6120' Completion Date 6/28/79 Total Depth 380' Land Type\* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/A

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

N/A

Depths &amp; thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. DAMP AT 35', 75' WET AT 100' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 40 SACKSDepths anodes placed: 355', 345', 335', 325', 315', 305', 295', 270', 260', 250'Depths vent pipes placed: 380'Vent pipe perforations: 280'Remarks: GB # 1 NOT A MERIDIAN WELL.**RECEIVED**  
MAY 31 1991  
OIL CON. DIV.  
DIST. 3

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.

WELL CASING  
CATHODIC PROTECTION CONSTRUCTION REPORT  
DAILY LOG

Drilling Log (Attach Hereto). ☐

CONTACT #2 2 x 60 ANODES

Completion Date 6-28-79

|                                         |                         |                                           |                             |                            |         |
|-----------------------------------------|-------------------------|-------------------------------------------|-----------------------------|----------------------------|---------|
| Well Name<br>EPNG Com B # 3A            |                         | Location<br>NW 32-31-10                   |                             | CPS No.<br>1451 W          |         |
| Type & Size Bit Used<br>6 3/4           |                         |                                           |                             | Work Order No.<br>57422-21 |         |
| Anode Hole Depth<br>380'<br>1099ed 380' | Total Drilling Rig Time | Total <del>W.</del> Coke Used<br>40 SACKS | Lost Circulation Mat'l Used | No. Sacks Mud Used         |         |
| Anode Depth                             |                         |                                           |                             |                            |         |
| # 1 355                                 | # 2 345                 | # 3 335                                   | # 4 325                     | # 5 315                    | # 6 305 |
| # 7 295                                 | # 8 270                 | # 9 260                                   | # 10 250                    |                            |         |
| Anode Output (Amps)                     |                         |                                           |                             |                            |         |
| # 1 3.1                                 | # 2 3.2                 | # 3 3.4                                   | # 4 3.1                     | # 5 4.1                    | # 6 4.0 |
| # 7 3.0                                 | # 8 4.2                 | # 9 4.9                                   | # 10 4.6                    |                            |         |
| Anode Depth                             |                         |                                           |                             |                            |         |
| # 11                                    | # 12                    | # 13                                      | # 14                        | # 15                       | # 16    |
| # 17                                    | # 18                    | # 19                                      | # 20                        |                            |         |
| Anode Output (Amps)                     |                         |                                           |                             |                            |         |
| # 11                                    | # 12                    | # 13                                      | # 14                        | # 15                       | # 16    |
| # 17                                    | # 18                    | # 19                                      | # 20                        |                            |         |
| Total Circuit Resistance                |                         |                                           |                             | No. 8 C.P. Cable Used      |         |
| Volts 11.7                              |                         | Amps 15.1                                 |                             | Ohms .77                   |         |
|                                         |                         |                                           |                             | No. 2 C.P. Cable Used      |         |

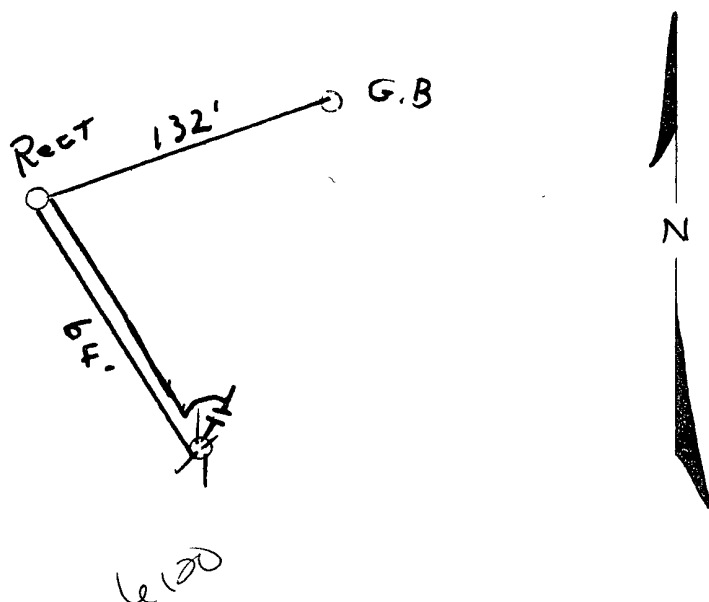
Remarks: DRILLER said damp at 35', 75', wet at 100'. waited 20 min  
Blew WATER got WATER sample.  
INSTALLED 380' of 1" VENT PIPE PERFORATED 280' of VENT PIPE  
SLURRIED 40 SACKS of COKE

1 40V 16A Rect  
1 Stub Pole  
Ditch - 1 cable 196'  
EXTRA cable 84'  
Hole - 120'

All Construction Completed

*Willis Knight Jr.*  
(Signature)

GROUND BED LAYOUT SKETCH



DISTRIBUTION:

WHITE - Division Corrosion Office  
YELLOW - Area Corrosion Office  
PINK - Originator File

El Paso Natural Gas Company  
ENGINEERING CALCULATION

Sheet: \_\_\_\_\_ of \_\_\_\_\_  
Date: \_\_\_\_\_  
By: WJR  
File: \_\_\_\_\_

EPNG Com B<sup>2</sup> 3A  
NW 32-31-10  
W/O 57422-21  
CPS 1451 W

CONTRACT 2 2x60 ANODOS

STATIC 600' E = .80

| MW     |                 | gals/mol |
|--------|-----------------|----------|
| 16.04  | C1              | 6.4      |
| 30.07  | C2              | 10.12    |
| 44.10  | C3              | 10.42    |
| 58.12  | iC4             | 12.38    |
| 58.12  | nC4             | 11.93    |
| 72.15  | iC5             | 13.85    |
| 72.15  | nC5             | 13.71    |
| 86.18  | iC6             | 15.50    |
| 86.18  | C6              | 15.57    |
| 100.21 | iC7             | 17.2     |
| 100.21 | C7              | 17.46    |
| 114.23 | C8              | 19.39    |
| 28.05  | C2 <sup>2</sup> | 9.64     |
| 42.08  | C3 <sup>2</sup> | 9.67     |

1 40V/6A Rect  
1 STUD Pole  
DITCH 1035W 196'  
EXTRA cable 84'  
Hole - 120

DRILLER said damp at 35-75 & 100'  
waited 20 min at 100', 3/4" W WATER  
GOT WATER Sample  
Installed 380' of 1" VENT P.P.R., PERFOR.  
280' of VENT. STURRYED 40 SACK OF COA

|     |     |    |          |         |         |
|-----|-----|----|----------|---------|---------|
| 75  | .5  |    |          |         |         |
| 80  | .6  |    |          |         |         |
|     | .7  |    |          |         |         |
| 90  | .13 |    |          |         |         |
|     | .8  |    |          |         |         |
| 100 | .5  | 50 | 2.4 (10) | 6-27-79 | 1 hr    |
|     | .4  |    | 2.3      | 6-28-79 | 8 hr    |
| 10  | .5  | 60 | 2.5 (7)  |         |         |
|     | .4  |    | 2.5      |         |         |
| 20  | .4  | 70 | 2.5 (8)  |         |         |
|     | .7  |    | 2.4      |         |         |
| 30  | .6  |    | 2.0      |         |         |
|     | .5  |    | 1.9      |         |         |
| 40  | .5  |    | 2.3      |         |         |
|     | .3  |    | 2.3 (7)  |         |         |
| 50  | .3  | 80 | 2.3      |         |         |
|     | 1.2 |    | 2.5 (6)  |         |         |
| 60  | 1.9 |    | 2.7      |         |         |
|     | 1.6 |    | 2.7 (5)  |         |         |
| 70  | 1.6 |    | 2.4      |         |         |
|     | 1.8 |    | 2.1 (4)  |         |         |
|     | 1.6 |    | 2.1      |         |         |
|     | 1.5 |    | 2.2 (3)  |         |         |
|     | 1.4 |    | 2.1      |         |         |
|     | 1.2 |    | 2.1 (2)  |         |         |
|     | 1.0 |    | 2.1      |         |         |
|     | 1.5 |    | 2.1 (1)  |         |         |
|     | 1.5 |    | 1.6      |         |         |
|     | 1.4 |    | 1.5      |         |         |
|     | 1.3 |    | 2.1      |         |         |
|     | 1.1 |    | 2.3      |         |         |
|     | 1.8 |    | 2.3      |         |         |
|     | 1.6 |    |          |         |         |
|     | 2.2 |    |          |         |         |
|     | 2.3 |    |          |         |         |
|     |     |    |          | 3.5     | 2.5 3.1 |
|     |     |    |          | 3.45    | 2.5 3.2 |
|     |     |    |          | 3.35    | 2.7 3.4 |
|     |     |    |          | 3.25    | 2.6 3.1 |
|     |     |    |          | 3.15    | 3.1 4.1 |
|     |     |    |          | 3.05    | 3.0 4.0 |
|     |     |    |          | 2.95    | 2.4 3.0 |
|     |     |    |          | 2.90    | 2.8 4.2 |
|     |     |    |          | 2.80    | 3.3 4.9 |
|     |     |    |          | 2.50    | 3.1 4.6 |

| MW    |     | MISC. | gals/mol |
|-------|-----|-------|----------|
| 32.00 | O2  |       | 3.37     |
| 28.01 | CO  |       | 4.19     |
| 44.01 | CO2 |       | 6.38     |
| 64.06 | SO2 |       | 5.50     |
| 34.08 | H2S |       | 5.17     |
| 28.01 | N2  |       | 4.16     |
| 2.02  | H2  |       | 3.38     |

11.7 V 15.1 A .77 Ω

EL PASO NATURAL GAS COMPANY  
SAN JUAN DIVISION  
FARMINGTON, NEW MEXICO  
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-0623 Date 7-11-79

Operator EPNG Well Name EPNG COM B # 3A

Location NW 32-31-10 County SAN JUAN State NM

Field  Formation

Sampled From CPS 1451W

Date Sampled  By

Tbg. Press.  Csg. Press.  Surface Csg. Press.

|                   |                    |
|-------------------|--------------------|
| ppm               | ppm                |
| Sodium <u>230</u> | Chloride <u>80</u> |

|           |          |
|-----------|----------|
| epm       | epm      |
| <u>10</u> | <u>2</u> |

|                    |                       |
|--------------------|-----------------------|
| Calcium <u>624</u> | Bicarbonate <u>78</u> |
| <u>31</u>          | <u>1</u>              |

|                     |                     |
|---------------------|---------------------|
| Magnesium <u>25</u> | Sulfate <u>1900</u> |
| <u>2</u>            | <u>40</u>           |

|                     |                    |
|---------------------|--------------------|
| Iron <u>PRESENT</u> | Carbonate <u>0</u> |
| <u></u>             | <u>0</u>           |

|                                |                    |
|--------------------------------|--------------------|
| H <sub>2</sub> S <u>ABSENT</u> | Hydroxide <u>0</u> |
| <u></u>                        | <u>0</u>           |

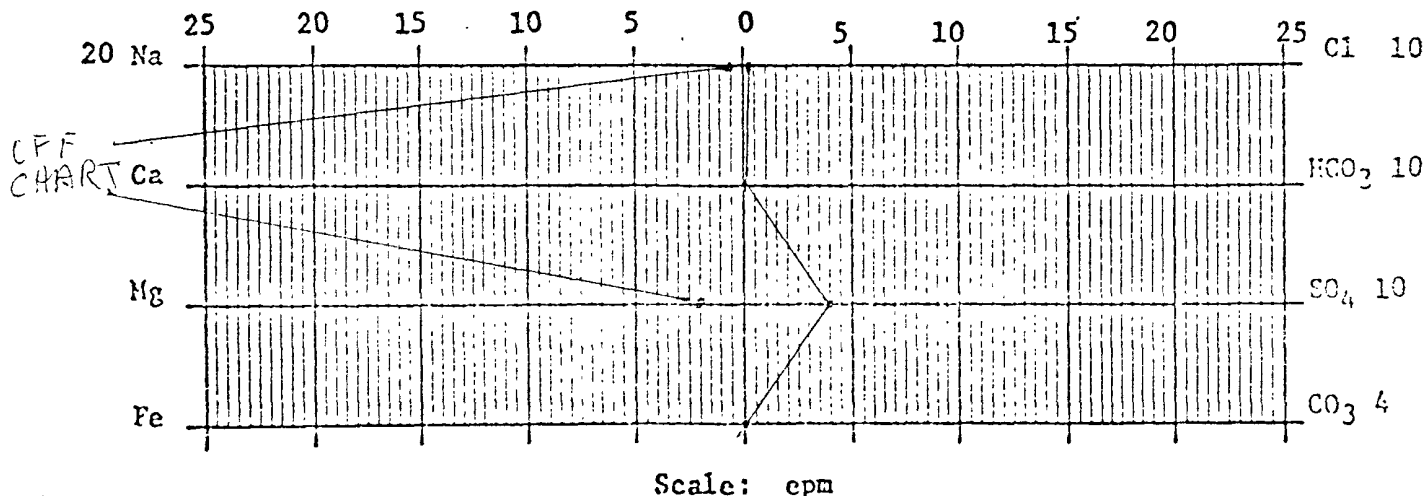
cc: D.C.Adams  
R.A.Ullrich  
E.R.Paulek  
J.W.McCarthy  
A.M.Smith  
W.B.Shropshire  
File

Total Solids Dissolved 3380  
pH 7.6

Sp. Gr. 1.0037 at 60°F  
Resistivity 280 ohm-cm at 74°F

C. B. O'Nan

*Chemist*  
Chemist 7-11-79



DAILY DRILLING REPORT

| LEASE               |     |                   | WELL NO.                         |        |       | CONTRACTOR |           |                   | RIG NO.                          |      |       | REPORT NO.                |        |                   | DATE                             |      |       |
|---------------------|-----|-------------------|----------------------------------|--------|-------|------------|-----------|-------------------|----------------------------------|------|-------|---------------------------|--------|-------------------|----------------------------------|------|-------|
| MORNING             |     |                   |                                  |        |       | DAYLIGHT   |           |                   |                                  |      |       | EVENING                   |        |                   |                                  |      |       |
| Driller             |     | Total Men In Crew |                                  |        |       | Driller    |           | Total Men In Crew |                                  |      |       | Driller                   |        | Total Men In Crew |                                  |      |       |
| FROM                | TO  | FORMATION         | WT-BIT                           | R.P.M. | FROM  | TO         | FORMATION | WT-BIT            | R.P.M.                           | FROM | TO    | FORMATION                 | WT-BIT | R.P.M.            |                                  |      |       |
|                     |     |                   |                                  |        |       |            |           |                   |                                  |      |       |                           |        |                   |                                  |      |       |
| BIT NO.             |     | NO. DC            |                                  | SIZE   | LENG. | BIT NO.    |           | NO. DC            |                                  | SIZE | LENG. | BIT NO.                   |        | NO. DC            |                                  | SIZE | LENG. |
| SEI NO.             |     | STANDS            |                                  |        |       | SERIAL NO. |           | STANDS            |                                  |      |       | SERIAL NO.                |        | STANDS            |                                  |      |       |
| SIZE                |     | SINGLES           |                                  |        |       | SIZE       |           | SINGLES           |                                  |      |       | SIZE                      |        | SINGLES           |                                  |      |       |
| TYPE                |     | DOWN ON KELLY     |                                  |        |       | TYPE       |           | DOWN ON KELLY     |                                  |      |       | TYPE                      |        | DOWN ON KELLY     |                                  |      |       |
| MAKE                |     | TOTAL DEPTH       |                                  |        |       | MAKE       |           | TOTAL DEPTH       |                                  |      |       | MAKE                      |        | TOTAL DEPTH       |                                  |      |       |
| MUD RECORD          |     |                   | MUD, ADDITIVES USED AND RECEIVED |        |       | MUD RECORD |           |                   | MUD, ADDITIVES USED AND RECEIVED |      |       | MUD RECORD                |        |                   | MUD, ADDITIVES USED AND RECEIVED |      |       |
| Time                | Wt. | Vis.              |                                  |        |       | Time       | Wt.       | Vis.              |                                  |      |       | Time                      | Wt.    | Vis.              |                                  |      |       |
|                     |     |                   |                                  |        |       |            |           |                   |                                  |      |       |                           |        |                   |                                  |      |       |
| FROM                | TO  | TIME BREAKDOWN    |                                  |        |       | FROM       | TO        | TIME BREAKDOWN    |                                  |      |       | FROM                      | TO     | TIME BREAKDOWN    |                                  |      |       |
| 0                   | 10  | SURFACE SANDSTONE |                                  |        |       | 34         | 45        | SAND (wet)        |                                  |      |       | 212                       | 216    | SHALE             |                                  |      |       |
| 10                  | 20  | CLAY              |                                  |        |       | 45         | 77        | SHALE             |                                  |      |       | 216                       | 238    | SANDY SHALE       |                                  |      |       |
| 20                  | 30  | SHALE             |                                  |        |       | 77         | 100       | SAND (wet)        |                                  |      |       | 238                       | 280    | SHALE             |                                  |      |       |
| 30                  | 32  | CLAY              |                                  |        |       | 100        | 133       | SANDY SHALE       |                                  |      |       | 280                       | 290    | SANDY SHALE       |                                  |      |       |
| 32                  | 33  | SAND (wet)        |                                  |        |       | 133        | 210       | SHALE             |                                  |      |       | 290                       | 305    | SHALE             |                                  |      |       |
| 33                  | 34  | SANDSTONE         |                                  |        |       | 210        | 212       | SANDY SHALE       |                                  |      |       | 305                       | 310    | SANDY SHALE       |                                  |      |       |
| REMARKS -           |     |                   |                                  |        |       | REMARKS -  |           |                   |                                  |      |       | REMARKS -                 |        |                   |                                  |      |       |
| 310-330 SHALE       |     |                   |                                  |        |       |            |           |                   |                                  |      |       | Water Sample taken @ 100' |        |                   |                                  |      |       |
| 330-370 SANDY SHALE |     |                   |                                  |        |       |            |           |                   |                                  |      |       |                           |        |                   |                                  |      |       |
| 370-380 SHALE       |     |                   |                                  |        |       |            |           |                   |                                  |      |       |                           |        |                   |                                  |      |       |

SIGNED: Toolpusher

\_\_\_\_ Company Supervisor

969

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30-045-22978

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit NW Sec. 36 Twp 31 Rng 10Name of Well/Wells or Pipeline Serviced ATLANTIC D COM #1A

cps 1450w.

Elevation 6568' Completion Date 7/31/79 Total Depth 500' Land Type\* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used  
N/ADepths & thickness of water zones with description of water when possible:  
Fresh, Clear, Salty, Sulphur, Etc. 100' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: 68 SACKSDepths anodes placed: 485', 470', 460', 450', 260', 220', 210', 165', 155', 145'Depths vent pipes placed: 500'Vent pipe perforations: 440'Remarks: gb #1**RECEIVED**  
MAY 31 1991OCD COM. DIV.  
DIST. 33

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.

WELL CASING  
CATHODIC PROTECTION CONSTRUCTION REPORT  
DAILY LOG

Drilling Log (Attach Hereto). ☐

CONTRACT #2 (2" x 60" Duroon)

Completion Date 7/31/79

|                                           |                         |                                    |                             |                                   |                       |
|-------------------------------------------|-------------------------|------------------------------------|-----------------------------|-----------------------------------|-----------------------|
| Well Name<br><b>ATLANTIC D COM #1A</b>    |                         | Location<br><b>NW 36-31-10</b>     |                             | CPS No.<br><b>1450 W</b>          |                       |
| Type & Size Bit Used<br><b>6 3/4"</b>     |                         |                                    |                             | Work Order No.<br><b>57329-21</b> |                       |
| Anode Hole Depth<br><b>500' T.D. 500'</b> | Total Drilling Rig Time | Total Coke Used<br><b>68 SACKS</b> | Lost Circulation Mat'l Used | No. Sacks Mud Used                |                       |
| Anode Depth                               |                         |                                    |                             |                                   |                       |
| # 1 485'                                  | # 2 470'                | # 3 460'                           | # 4 450'                    | # 5 260'                          | # 6 220'              |
| # 7 210'                                  | # 8 165'                | # 9 155'                           | # 10 145'                   |                                   |                       |
| Anode Output (Amps)                       |                         |                                    |                             |                                   |                       |
| # 1 2.5                                   | # 2 2.1                 | # 3 3.3                            | # 4 3.1                     | # 5 2.0                           | # 6 3.0               |
| # 7 3.4                                   | # 8 3.6                 | # 9 4.0                            | # 10 4.1                    |                                   |                       |
| Anode Depth                               |                         |                                    |                             |                                   |                       |
| # 11                                      | # 12                    | # 13                               | # 14                        | # 15                              | # 16                  |
| # 17                                      | # 18                    | # 19                               | # 20                        |                                   |                       |
| Anode Output (Amps)                       |                         |                                    |                             |                                   |                       |
| # 11                                      | # 12                    | # 13                               | # 14                        | # 15                              | # 16                  |
| # 17                                      | # 18                    | # 19                               | # 20                        |                                   |                       |
| Total Circuit Resistance                  |                         |                                    |                             | No. 8 C.P. Cable Used             | No. 2 C.P. Cable Used |
| Volts 11.9V                               | Amps 12.2A              | Ohms .9Ω                           |                             |                                   |                       |

Remarks: STATIC 600' S = .90 V Driller SAID WATER AT 100'. Approx. 1-2 gals./min. Drilled To 120'. WATER STANDING IN HOLE NEXT A.M. AT 80'. Drilled To 340'. Logged Hole, Did NOT HAVE enough SHALE. Drilled To 500'. Logged 500'. INSTALLED 500' of 1" P.V.C VENT pipe, Perforated 440'.

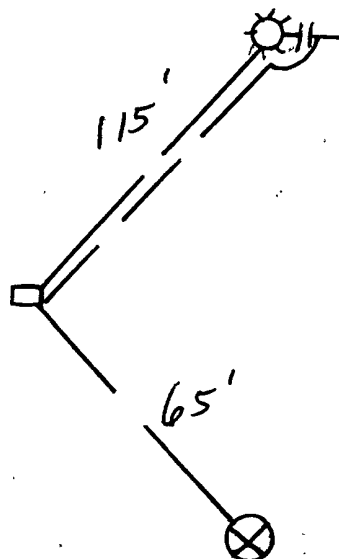
All Construction Completed

Ditch + 1 cable = 180'  
extra cable = 135'

GROUND BED LAYOUT SKETCH

*jc* *Stoltz*  
(Signature)

Stub Pole x 40V 16A RECT



DISTRIBUTION:

WHITE - Division Corrosion Office  
YELLOW - Area Corrosion Office  
PINK - Originator File

6566

7-31 1979

SIGNED: Toolpusher

Rosy

\_\_\_\_ Company Supervisor

El Paso Natural Gas Company  
ENGINEERING CALCULATION

Sheet: \_\_\_\_\_ of \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_

File: \_\_\_\_\_

ATLANTIC D COM 21A

CPS 1450W

NW 36-31-10

57329-21

| MW     | gals/mol              |
|--------|-----------------------|
| 16.04  | C <sub>1</sub> 6.4    |
| 30.07  | C <sub>2</sub> 10.12  |
| 44.10  | C <sub>3</sub> 10.42  |
| 58.12  | iC <sub>4</sub> 12.38 |
| 58.12  | nC <sub>4</sub> 11.93 |
| 72.15  | iC <sub>5</sub> 13.85 |
| 72.15  | nC <sub>5</sub> 13.71 |
| 86.18  | iC <sub>6</sub> 15.50 |
| 86.18  | C <sub>6</sub> 15.57  |
| 100.21 | iC <sub>7</sub> 17.2  |
| 100.21 | C <sub>7</sub> 17.46  |
| 114.23 | C <sub>8</sub> 19.39  |
| 28.05  | C <sub>2</sub> 9.64   |
| 42.08  | C <sub>3</sub> 9.67   |

| MW    | MISC.            | gals/mol |
|-------|------------------|----------|
| 32.00 | O <sub>2</sub>   | 3.37     |
| 28.01 | CO               | 4.19     |
| 44.01 | CO <sub>2</sub>  | 6.38     |
| 64.06 | SO <sub>2</sub>  | 5.50     |
| 34.08 | H <sub>2</sub> S | 5.17     |
| 28.01 | N <sub>2</sub>   | 4.16     |
| 2.02  | H <sub>2</sub>   | 3.38     |

|             |             |                                                                    |
|-------------|-------------|--------------------------------------------------------------------|
| 100-.6      | 310-.6      | Driller SAID WATER AT 100', Approx. 1-2 GAL/MIN.                   |
| .2          | .7          | Drilled To 120' WATER IN hole NEXT A.M. AT 80' Drilled To 340'.    |
| 10-.1       | 20-.8       | Logged Hole, NOT enough SHALE. Drilled To 500'.                    |
| 20-         | 30-.4       | Logged 500' INSTALLED 500' of 1" P.V.C. Vent Pipe Perforated 440'. |
| 30-         | 40-.4       |                                                                    |
| 40-         | 50-.3       |                                                                    |
| 50-1.8 - ①  | 60-.3       |                                                                    |
| 60-1.9      | 70-.29      |                                                                    |
| 70-2.1 - ②  | 80-.3       |                                                                    |
| 80-2.3      | 90-.4       |                                                                    |
| 90-1.8 - ③  | 100-.7      |                                                                    |
| 100-.8      | 110-.8      |                                                                    |
| 110-.8      | 120-.4      |                                                                    |
| 120-.9      | 130-.3      |                                                                    |
| 130-1.1     | 140-.4      |                                                                    |
| 140-.8      | 150-.9      |                                                                    |
| 150-.9      | 160-1.0     |                                                                    |
| 160-1.1     | 170-1.1     |                                                                    |
| 170-1.3 - ④ | 180-.9      |                                                                    |
| 180-2.0     | 190-.6      |                                                                    |
| 190-1.6 - ⑤ | 200-.6      |                                                                    |
| 200-.8      | 210-.4      |                                                                    |
| 210-.4      | 220-.4      |                                                                    |
| 220-.3      | 230-.8      |                                                                    |
| 230-3       | 240-1.6 - ⑥ |                                                                    |
| 240-4       | 250-1.9     |                                                                    |
| 250-.5      | 260-1.6 - ⑦ |                                                                    |
| 260-.6      | 270-2.0     |                                                                    |
| 270-1.2 - ⑧ | 280-1.0 - ⑧ |                                                                    |
| 280-1.0     | 290-.8      |                                                                    |
| 290-.6      | 300-1.8     |                                                                    |
| 300-.6      | 310-1.8 - ⑩ |                                                                    |
| 310-.5      | 320-2.2     |                                                                    |
| 320-.4      | 330-2.1     |                                                                    |
| 330-3       | 340-        |                                                                    |
| 340-.6      | 350-        | Drilled To & T.D.                                                  |
| 350-.5      |             |                                                                    |
| 360-.5      |             |                                                                    |

$$11.9V \quad 12.2A = .9 \Omega$$

$$7/31/75 \quad 13 \text{ km}$$

js

|              |     |
|--------------|-----|
| 1-485'-2.0-  | 2.5 |
| 2-470'-1.3-  | 2.1 |
| 3-466'-2.0-  | 3.3 |
| 4-450'-1.7-  | 3.1 |
| 5-260'-1.3-  | 2.0 |
| 6-220'-2.0-  | 3.0 |
| 7-210'-1.3-  | 3.4 |
| 8-165'-2.4-  | 3.6 |
| 9-155'-2.2-  | 4.0 |
| 10-145'-2.2- | 4.1 |

EL PASO NATURAL GAS COMPANY  
SAN JUAN DIVISION  
FARMINGTON, NEW MEXICO  
PRODUCTION DEPARTMENT WATER ANALYSIS

Analysis No. 1-9675 Date 8-14-79

Operator EPNG Well Name ATLANTIC D COM #1A

Location NW36-31-10 County \_\_\_\_\_ State \_\_\_\_\_

Field \_\_\_\_\_ Formation \_\_\_\_\_

Sampled From \_\_\_\_\_ CPS 1450 W Water at 100'

Date Sampled \_\_\_\_\_ By \_\_\_\_\_

Tbg. Press. \_\_\_\_\_ Csg. Press. \_\_\_\_\_ Surface Csg. Press \_\_\_\_\_

ppm epm ppm epm

Sodium 1610 70 Chloride 312 9

Calcium 528 26 Bicarbonate 176 3

Magnesium 51 4 Sulfate 4250 88

Iron PRESENT Carbonate 0 0

H<sub>2</sub>S ABSENT Hydroxide 0 0

cc: D.C.Adams  
R.A.Ullrich  
E.R.Paulek  
J.W.McCarthy  
A.M.Smith  
W.B.Shropshire  
File  
C.B. O'Nan

APPROX 1/2 GAL/MIN

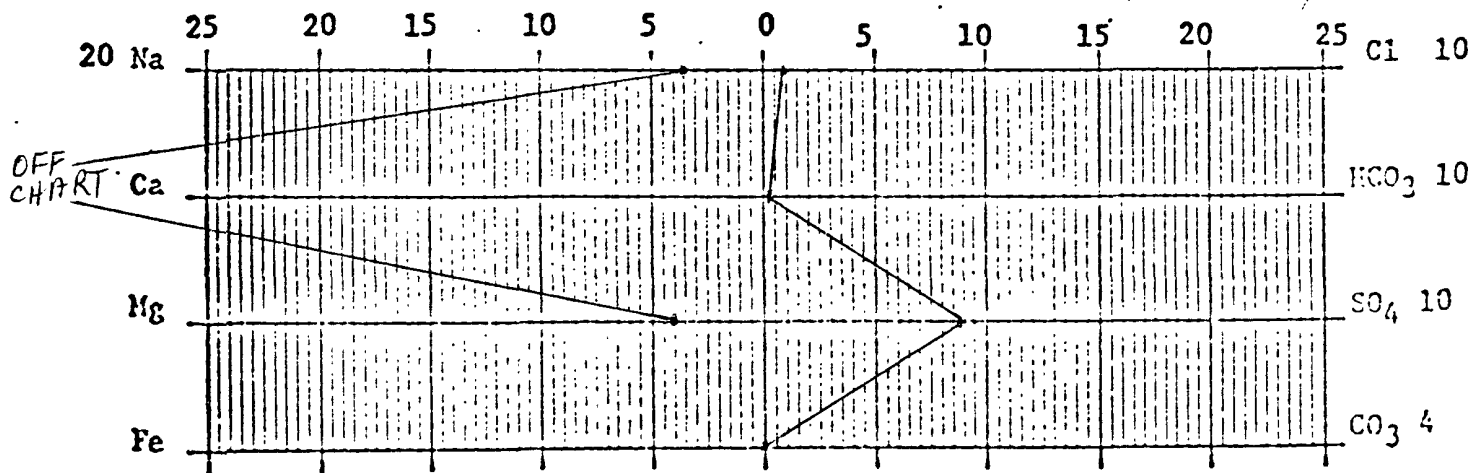
Total Solids Dissolved 7450

pH 7.7

Sp. Gr. 1.0081 at 60°F

Resistivity 110 ohm-cm at 75 °F

*Cheryl Terwilliger*  
Chemist



Scale: epm