30-045-22776

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

Operator MERIDIAN OIL Location: Unit SW Sec. 7 Twp 28 Rng 8

Name of Well/Wells or Pipeline Serviced RIDDLE G #1A

cps 1359w

Elevation 5687' Completion Date 6/6/79 Total Depth 380' Land Type* N/A

Casing, Sizes, Types & Depths 50' OF 8" CASING

If Casing is cemented, show amounts & types used 10'

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

N/A

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

Fresh, Clear, Salty, Sulphur, Etc. 20' WATER FLOWING OUT OF HOLE

NEXT A.M.

Depths gas encountered: N/A

Type & amount of coke breeze used: 60 SACKS

Depths anodes placed: 355', 315', 305', 265', 235', 225', 180', 160', 110', 90'

Depths vent pipes placed: 370' of 1" PIPE

Vent pipe perforations: 300'

Remarks: gb #1

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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.

Natural Gas Company
-238 (Rev. 11-71)

WELL CASING

# CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

CONTRACT #1

ng Log (Attach Hereto). ☐ 2 x 60 ANODES Completion Date 6-6-79

| lame | Location | CPS No. |
|---|---|---|
| Riddle G #1A | SW 7-28-8 | 1359 W |

| & Size Bit Used | Work Order No. |
|---|---|
| 6 3/4" | 57264-21 |

| Hole Depth | Total Drilling Rig Time | Total ~~Lbs~~ Coke Used | Lost Circulation Mat'l Used | No. Sacks Mud Used |
|---|---|---|---|---|
| 380' | See Below | 60 Sacks | | |

| e Depth | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 |
|---|---|---|---|---|---|---|---|---|---|
| 355 | 315 | 305 | 265 | 235 | 225 | 180 | 160 | 110 | 90 |
| e Output (Amps) | | | | | | | | | |
| 5.1 | 4.3 | 5.0 | 5.2 | 5.3 | 4.7 | 4.9 | 4.5 | 4.3 | 5.3 |
| ie Depth | #12 | #13 | #14 | #15 | #16 | #17 | #18 | #19 | #20 |
| ie Output (Amps) | #12 | #13 | #14 | #15 | #16 | #17 | #18 | #19 | #20 |

| d Circuit Resistance | | | No. 8 C.P. Cable Used | No. 2 C.P. Cable Used |
|---|---|---|---|---|
| ts 10.2 | Amps 23.3 | Ohms .44 | | |

arks: DRILLER Said Hit water @ 20', DRILLED TO 380'. NEXT A.M. had WTR Flowing. Set 50' of 8" Casing. INSTALLED 370' of 1" VENT PIPE perforated 300' of VENT PIPE. Slurryed 60 Sacks of coke, left APPROX. 10' open hole, IN case hole Needs TO be cemented TO STOP WATER flow. STATIC - 600' S = .65

40V 16A Rect

20' meter Pole

Tch + 1 cable - 160'

EXTRA cable - 137'

Hole - ~~120'~~ 95'

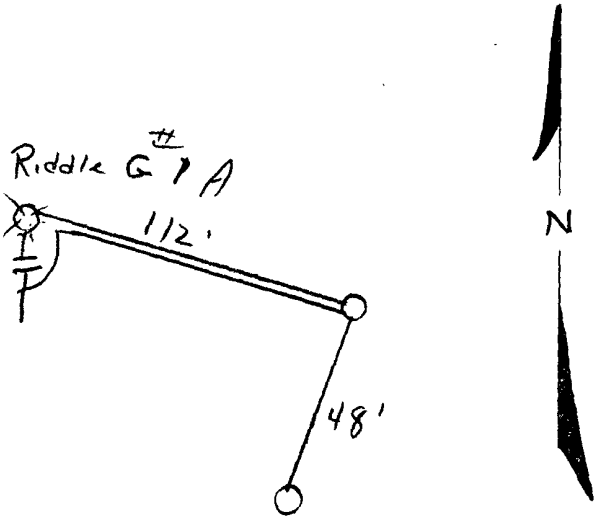
Pay for cementing Hole

Pay 405' Hole

All Construction Completed

Willis Dwight Jr.
(Signature)

GROUND BED LAYOUT SKETCH




DISTRIBUTION:
WHITE – Division Corrosion Office
YELLOW – Area Corrosion Office
PINK – Originator File

5687

Form 7-1 (Rev 9-77)

El Paso Natural Gas Company
**ENGINEERING CALCULATION**

Sheet: ___ of ___
Date: 6.6.79
By: ___
File: ___

Riddle G #1A  WIO-57264-21
SW 7-28-8
1359 W
STATIC 600' S .65

10 2x60 ANODES
1 20' METER POLE
DITCH + 1 CABLE 160'
EXTRA CABLE 137'

DRILLER SAID HIT WATER @ 20' DRILLED TO 380', NEXT MORNING WATER FLOWING OUT OF HOLE.
INSTALLED 370' 1" VENT PIPE

HOLE - 120'

PERFORATED 380' OF VENT PIPE
INSTALLED 50' 8" CASING 3 HRS
SLURRYED 60 SACKS COKE
LEFT APPROX. 10' OPEN HOLE
IN CASE WE NEED TO CEMENT

| MW | | gals/mol |
|---|---|---|
| 16.04 | $C_1$ | 6.4 |
| 30.07 | $C_2$ | 10.12 |
| 44.10 | $C_3$ | 10.42 |
| 58.12 | $IC_4$ | 12.38 |
| 58.12 | $nC_4$ | 11.93 |
| 72.15 | $IC_5$ | 13.85 |
| 72.15 | $nC_5$ | 13.71 |
| 86.18 | $IC_6$ | 15.50 |
| 86.18 | $C_6$ | 15.57 |
| 100.21 | $IC_7$ | 17.2 |
| 100.21 | $C_7$ | 17.46 |
| 114.23 | $C_8$ | 19.39 |
| 28.05 | $C_2^=$ | 9.64 |
| 42.08 | $C_3^=$ | 9.67 |

| MW | MISC. | gals/mol |
|---|---|---|
| 32.00 | $O_2$ | 3.37 |
| 28.01 | CO | 4 19 |
| 44.01 | $CO_2$ | 6.38 |
| 64 06 | $SO_2$ | 5 50 |
| 34.08 | $H_2S$ | 5 17 |
| 28 01 | $N_2$ | 4 16 |
| 2 02 | $H_2$ | 3 38 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 20 | | | 70 | 4.1 | | 20 | 2.9 | |
| 25 | | | 75 | 4.2 | | 25 | 2.0 | |
| 30 | | | 80 | 3.6 | (7) | 30 | 1.4 | |
| 35 | | | 85 | 3.7 | | 35 | 1.2 | |
| 40 | | | 90 | 2.8 | | 40 | 1.2 | |
| 45 | | | 95 | 1.5 | | 45 | 1.6 | ~~6.5.79 1hr~~ |
| 50 | 3.4 | | 200 | 1.6 | | 50 | 3.3 | 6.6.79 12h |
| 55 | 3.9 | | 05 | 2.9 | | 55 | 3.8 | (1) |
| 60 | 4.0 | | 10 | 2.8 | | 60 | 4.4 | |
| 65 | 3.5 | | 15 | 1.4 | | 65 | 3.7 | |
| 70 | 2.8 | | 20 | 2.7 | | 70 | 3.5 | |
| 75 | 2.6 | | 25 | 3.6 | (6) | 75 | 3.2 | |
| 80 | 2.6 | | 30 | 3.9 | | 80 | 3.0 | T.D. |
| 85 | 3.0 | | 35 | 3.6 | (5) | | | |
| 90 | 3.6 | (10) | 40 | 4.1 | | | | |
| 95 | 3.9 | | 45 | 4.2 | | | | |
| 100 | 4.2 | | 50 | 4.2 | | | | |
| 05 | 4.2 | | 55 | 4.3 | | | | |
| 10 | 3.5 | (9) | 60 | 4.3 | | | | |
| 15 | 2.6 | | 65 | 3.8 | (4) | | | |
| 20 | 2.0 | | 70 | 3.4 | | | | |
| 25 | 2.1 | | 75 | 2.9 | | | | |
| 30 | 2.4 | | 80 | 1.6 | | | | |
| 35 | 2.1 | | 85 | 1.4 | | | | |
| 40 | 2.5 | | 90 | 1.6 | | | | |
| 45 | 4.0 | | 95 | 1.8 | | | | |
| 50 | 4.1 | | 300 | 3.4 | | | | |
| 55 | 3.5 | | 05 | 4.1 | (3) | | | |
| 60 | 3.5 | (8) | 10 | 3.8 | | | | |
| 65 | 3.8 | | 15 | 3.5 | (2) | | | |

| | | |
|---|---|---|
| (1) | 355 - 3.8 | 5.1 |
| (2) | 315 - 3.4 | 4.3 |
| (3) | 305 - 3.8 | 5.0 |
| (4) | 265 - 4.3 | 5.2 |
| (5) | 235 - 4.0 | 5.3 |
| (6) | 225 - 3.5 | 4.7 |
| (7) | 180 - 4.1 | 4.9 |
| (8) | 160 - 3.5 | 4.5 |
| (9) | 110 - 3.5 | 4.3 |
| (10) | 90 - 3.6 | 5.3 |

10.2 V 23.3 A .44 Ω

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

Analysis No. 1-9563 Date 6-13-79

Operator EPNG Well Name Riddle G # 1A

Location SW 7-28-8 County San Juan State NM

Field Formation

Sampled From GPS

Date Sampled By

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

| | ppm | epm | | ppm | epm |
|---|---|---|---|---|---|
| Sodium | 1288 | 56 | Chloride | 20 | 1 |
| Calcium | 456 | 23 | Bicarbonate | 98 | 2 |
| Magnesium | 59 | 5 | Sulfate | 3875 | 81 |
| Iron | Present | | Carbonate | 0 | 0 |
| $H_2S$ | Absent | | Hydroxide | 0 | 0 |

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

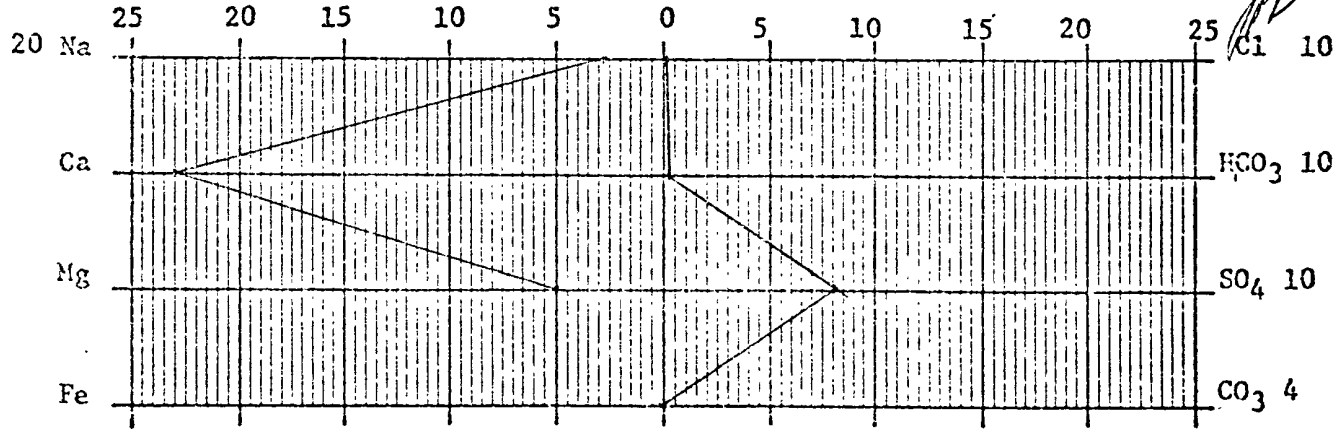
Total Solids Dissolved 7038

pH 7.8

Sp. Gr. 1.0071 at 60°F

Resistivity 170 ohm-cm at 73 °F

Chemist




Scale: epm

Form 22-2 (Rev. 1-61)

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

# DAILY DRILLING REPORT

LEASE Ripple C - #1A WELL NO. 1359W CONTRACTOR WOLVERINE RIG NO. W2 REPORT NO. DATE 6-6 1972

## MORNING

Driller Rod FRYE Total Men In Crew 3

| FROM | TO | FORMATION | WT-BIT | R.P.M. |
|---|---|---|---|---|
| 0 | 50 | BLOW SAND | | |
| 50 | 200 | Shale + SAND | | |
| 200 | 380 | SAND & Shale STRKS | | |
| | | | | |

NO. DC ____ SIZE ____ LENG. ____
NO. DC ____ SIZE ____ LENG. ____
BIT NO.
SERIAL NO.
STANDS
SIZE 1-5⅞ 1-6¾
SINGLES
TYPE
DOWN ON KELLY
MAKE
TOTAL DEPTH

MUD RECORD

| Time | Wt. | Vis. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

MUD, ADDITIVES USED AND RECEIVED

8 sacks CeL
3 " Hulls
1 " CEDAR FIBER

| FROM | TO | TIME BREAKDOWN |
|---|---|---|
| | | 2 HRS water time. |
| | | 3 HRS SET SURFACE CASING. |
| | | |
| | | |
| | | |
| | | |

REMARKS –

DRILLED 380'
LOGGED 380.

## DAYLIGHT

Driller Total Men In Crew

| FROM | TO | FORMATION | WT-BIT | R.P.M. |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

NO. DC ____ SIZE ____ LENG. ____
NO. DC ____ SIZE ____ LENG. ____
BIT NO.
SERIAL NO.
STANDS
SIZE
SINGLES
TYPE
DOWN ON KELLY
MAKE
TOTAL DEPTH

MUD RECORD

| Time | Wt. | Vis. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

MUD, ADDITIVES USED AND RECEIVED

| FROM | TO | TIME BREAKDOWN |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

REMARKS –

## EVENING

Driller Total Men In Crew

| FROM | TO | FORMATION | WT-BIT | R.P.M. |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

NO. DC ____ SIZE ____ LENG. ____
NO. DC ____ SIZE ____ LENG. ____
BIT NO.
SERIAL NO.
STANDS
SIZE
SINGLES
TYPE
DOWN ON KELLY
MAKE
TOTAL DEPTH

MUD RECORD

| Time | Wt. | Vis. |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

MUD, ADDITIVES USED AND RECEIVED

| FROM | TO | TIME BREAKDOWN |
|---|---|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

REMARKS –

SIGNED: Toolpusher _____ Company Supervisor _____