

**CATHODIC PROTECTION
GROUNDBED INSTALLATION
AT**



**DEVON ENERGY
N.E.B.U # 65A WELL MV/DK
LOCATION: SEC. 11, T31N, R7W
SAN JUAN COUNTY, NEW MEXICO
30-045-31076**



**Advanced Corrosion & Environmental Services
P.O. Box 2767
Farmington, New Mexico 87499**

June 26, 2003

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

(Submit 3 copies to OCD Aztec Office)

Operator DEVON ENERGY PRODUCTION, LP Location: Unit Sec. 11 Twp 31N Rng 7W

Name of Well/Wells or Pipeline Serviced N.E.B.U. #65A WELL MV/DK

Elevation 6452' Completion Date 6/27/03 Total Depth 400' Land Type* Fed/Fee
Casing, Sizes, Types & Depths 8" PVC SURFACE CASING TO 20' BELOW LEASE
THE GROUND SURFACE (635').

If Casing is cemented, show amounts & types used N/A

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. MOISTURE WAS ENCOUNTERED FROM
100' bgs. GROUNDWATER WAS DISCOVERED IN THE HOLE AFTER TD=400'.

Depths gas encountered: N/A

Type & amount of coke breeze used: 64-50 LBS. BAGS (3200 LBS) SW LORESCO

Depths anodes placed: 272 ft., 280 ft., 288 ft., 296 ft., 304 ft., 312 ft., 320 ft., 328 ft.,

Depths vent pipes placed: 336 ft., 344 ft., 352 ft., AND 360 ft.
SURFACE TO 400 ft.

Vent pipe perforations: APPROXIMATELY EVERY TWO FEET.

Remarks: GROUNDWATER WAS DISCOVERED THE NEXT DAY AFTER HOLE
WAS COMPLETED TO 400'. WATER CONTAINED SEDIMENTS AND MUDDY COMPOSITION.

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.

Soil Boring/Well Log

Client: Devon Energy Production, LP

Well Location/No: N.E.B.U. #65A - Well MV/DK

TNSP: T - 31 - N

RNGE: R - 7 - W

SEC: 11

County: San Juan

State: New Mexico

Contractor: Advanced Corrosion & Env. Svs.

Drilling Co: Baily Drilling Co.

Spud Date: 6/25/2003

Date Completed: 6/26/2003

Elevation (if available): 6452'

Type of well: Cathodic Protection

Drilling method: Air Drilling

Logged by: A. D. Chaharlang

Remarks: Lithology was described visually from the cuttings.

Depth (ft)	Sample Type	Lithology	Lithology Description
0	excavation pit	silt/clay	Green clay to shale and dry to 4' from surface excavation pit.
10			From 0 to 20', 8" PVC surface casing was installed.
20	cuttings	sand/clay	From 4' to 50' lt. brown to tan sandstone, dry, hard.
30			
40			
50			
60	cuttings	shale/sandstone	From 50' to 80' blueish gray sandstone to shale, dry.
70			
80			
90	cuttings	shale	From 80' to 100' lt. blue clay/shale, dry.
100			
110	cuttings	shale/clay	From 110' to 140' pinkish gray clay/shale, dry.
120			
130			
140			
150	cuttings	sand/clay	From 150' to 180' lt. blue sandy clay, slightly moist.
160			
170			
180			
190	cuttings	shale/clay	Lt. gray clay/shale, slightly moist.
200			Same as above.
210	cuttings	shale/clay	Lt. gray to tan sand/clay, moist.
220			Same as above.
230			Same as above.
240			Same as above.
250			Same as above.
260			Same as above.
270	cuttings	sand/clay	Lt. gray to green sand/clay, moist.
280			Same as above.

Soil Boring/Well Log

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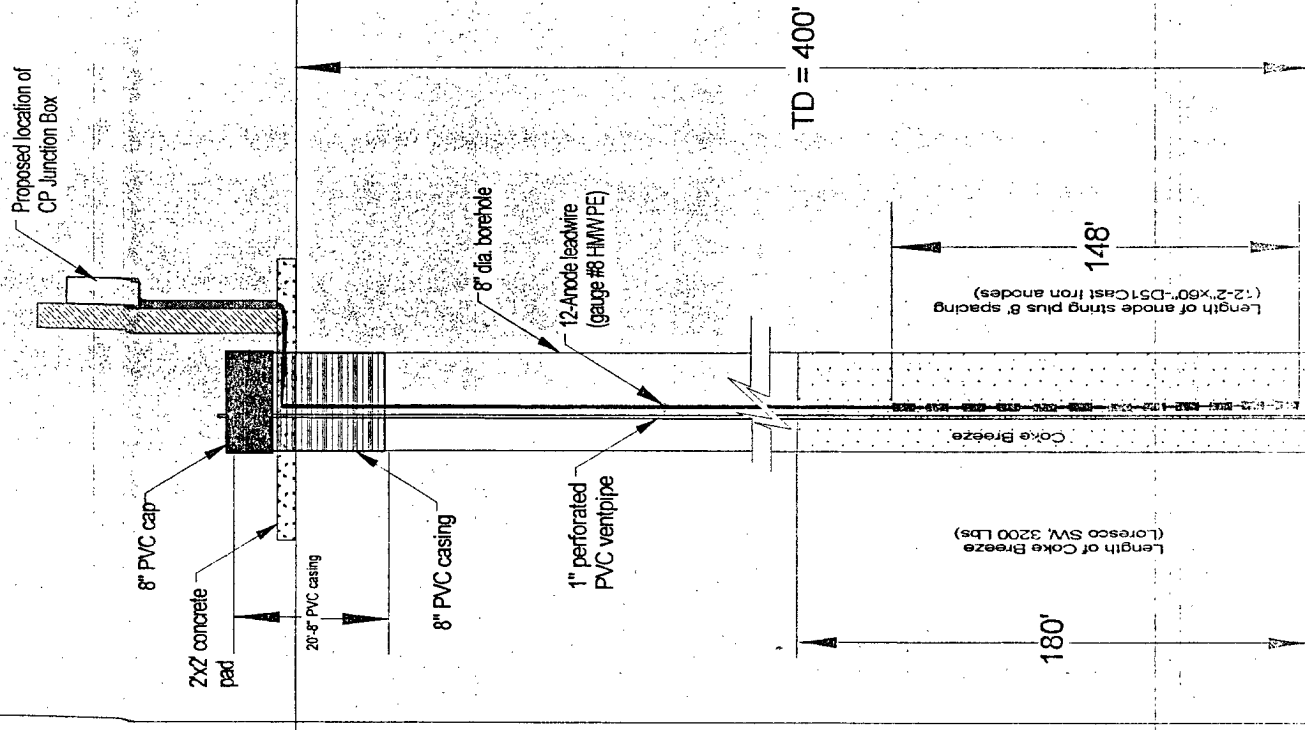
Type of well: Cathodic Protection

Drilling method: Air Drilling

Logged by: Al Chaharlang

Remarks: Lithology was described visually from the cuttings.

[illegible]



Devon
N.E.B.U. #65A
Well MV/DK



Advanced Corrosion &
Environmental Services
P.O. Box 2767
Farmington, New Mexico 87499
Tel: (505) 327-9461

Site: Devon N.E.B.U. #65A
Address: Sec. 11, T31N, R7W
San Juan County, NM
Fig. 1: Schematic diagram
of groundbed installation
Dwn by: Al Chaharlang
Prj Mgr: Al Chaharlang
e:\devonenergy\cp-65 Date: 7/8/2003

Not to Scale

INITIAL INSTALLATION RECORD

Remarks: Moisture encountered from 100' below the surface. Groundwater was encountered in the well and possible cave-in from 375' to 400'.

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External Shunt reading conversion:
Current = I = 50A/50mv x (+/- mv meter reading)

Total Current, $I = 14.2$ Ampere (note: meter reading)

$R = \text{Total Resistance} = \frac{V}{I} = 0.98 \text{ Ohm}$