

#83 MV 30-039-07005
#146 DK 30-039-20157

CPS 1320

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

Operator Union Oil Company of California Location: Unit Sec. 23 Twp 27N Rng 6W

Name of Well/Wells or Pipeline Serviced Rincon #83 MV Rincon #146 DK

Elevation 6629' Completion Date 9/19/78 Total Depth 500' Land Type* F

Casing, Sizes, Types & Depths None

If Casing is cemented, show amounts & types used None

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

None

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

Fresh, Clear, Salty, Sulphur, Etc. 260' - 320' Deep 60' thick

Depths gas encountered: NA

Type & amount of coke breeze used: type unknown 6000 lbs

Depths anodes placed: 363 to 435

Depths vent pipes placed: 500'

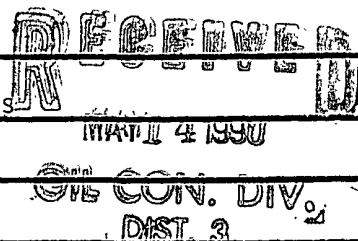
Vent pipe perforations: 240'

Remarks: El Paso Natural Gas Co. was the operator at the time this ground bed was installed.

First ground bed installed at this location.

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) ☐

Completion Date 9-19-78

Well Name <u>Rincon Unit #146</u>		Location <u>NE 23-27-6</u>		CPS No. <u>1320W</u>	
Type & Size Bit Used <u>6 3/4"</u>		Contract # <u>#2</u>		Work Order No. <u>#83-52852-19</u> <u>#146-54630-19</u>	
Anode Hole Depth <u>510 - 500</u>	Total Drilling Time	Total Loss of Circulation	Total Circulation Material Used	No. Sacks Mud Used	
Anode Depth	# 1	# 2	# 3	# 4	# 5
<u>4.35</u>	<u>4.27</u>	<u>4.19</u>	<u>4.11</u>	<u>4.03</u>	<u>3.95</u>
Anode Output (Amps)	# 6	# 7	# 8	# 9	# 10
<u>2.2</u>	<u>3.4</u>	<u>2.7</u>	<u>2.3</u>	<u>2.5</u>	<u>2.7</u>
Anode Depth	# 11	# 12	# 13	# 14	# 15
<u>3.79</u>	<u>3.71</u>	<u>3.63</u>	<u>3.55</u>	<u>3.47</u>	<u>3.39</u>
Anode Output (Amps)	# 16	# 17	# 18	# 19	# 20
<u>2.7</u>	<u>2.7</u>	<u>2.7</u>	<u>2.7</u>	<u>2.7</u>	<u>2.7</u>
Total Circuit Resistance	Volts		Amps		Ohms
<u>12.0</u>	<u>10.1</u>		<u>1.2</u>		
No. 8 C.P. Cable Used			No. 2 C.P. Cable Used		

Remarks: Static #83 600' SR = 0.78. #146 has Bend Box. Driller said
Making water @ 320'. Perforated 240' of 1" PVC Vent Pipe. Installed
500' of 1" PVC Vent Pipe. 10-12 Gals Per Min. of water. Slurried 60 sacks
of coke. Anodes spaced 8' apart.
60V 30A Rectifier

Stub Pole

Hole Depth = 0

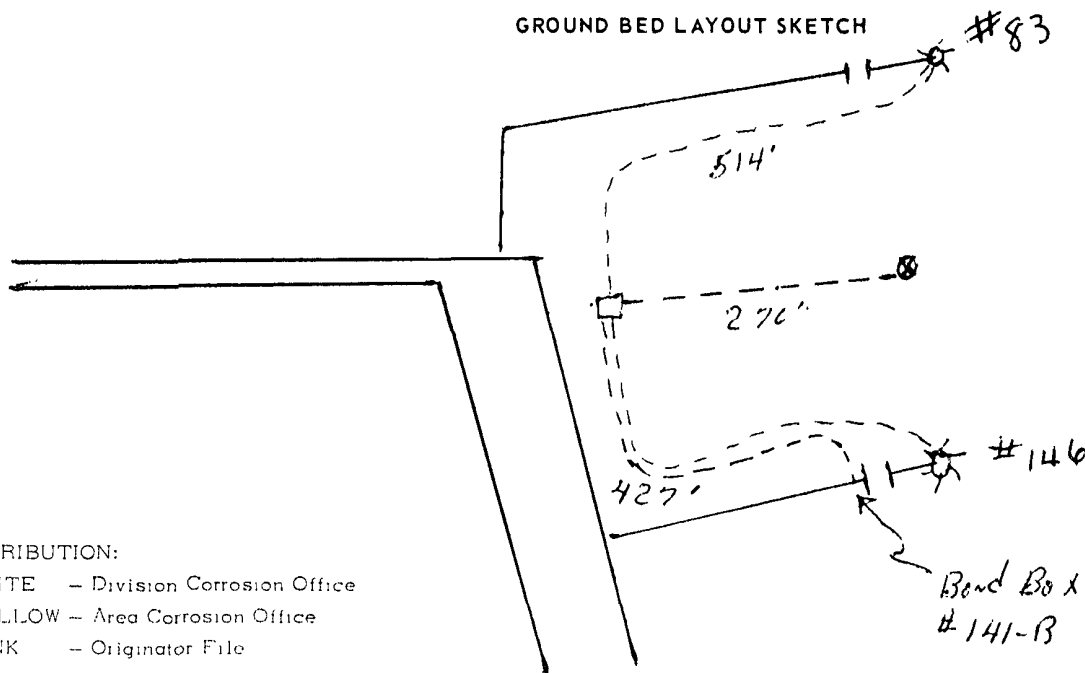
Ditch #1 Cable = 1211'

Extra Cable = 427'

All Construction Completed

W. Z. Lutz
(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: _____
File: _____

Rincon Unit #83
Rincon Unit #146

NE 23-24-6
CONTRACT # 2

1320W

52852-19
54630-19

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 ₂ S	5.17
28.01	N ₂	4.16
2.02	H ₂	3.38

Static #83 600' SE = 0.78
Static #146 600' SE = (Kong's Ex)

Driller said making water @ 320'
10-12 Gals. Per Min.
Perforated 240' of 1" PVC vent pipe
Installed 500' of 1" PVC vent pipe
Slurried 60 sacks of coke

Spaced Anodes 8' apart

200	80	1.4
		1.5
10	90	1.5
		1.4
20	400	1.3
		1.2
30	10	1.1
		1.8
40	20	1.5
		1.8
50	30	1.7
		1.0
60	40	.6
		.6
70	50	.6
		.5
80	60	.5
		.6
90	40	.6
		.7
300	80	.7
		.5
10	90	.6
		.6
20	500	.6
		.3
30	10	.3
		.4
40	1.0	1.0
		.5
50	.5	.5
		.5
60	.7	.7
		1.4
70	1.4	1.4
		1.4

60V. 30A Rectifier
Stub Pole
Hole Depth = 0
Ditch 51 Cable = 1211'
EXTRA CABLE = 427'

① 435	1.0	2.2
② 427	1.7	3.4
③ 419	1.2	2.7
④ 411	1.0	2.3
⑤ 403	1.1	2.5
⑥ 395	1.2	2.7
⑦ 387	1.5	3.0
⑧ 379	1.4	2.7
⑨ 371	1.5	2.7
⑩ 363	1.5	3.1

Volts = 12.0
Amps = 10.1
Ohms = 1.2

435-1
10-1-2
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DAILY DRILLING REPORT

Contract # 2

LEASE

WELL NO.

1320 m

CONTRACTOR

D. & F. Entb

RIG NO.

2

REPORT NO.

DATE _____

Sep 20

19 78

[illegible]

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

[illegible]

FROM	TO	TIME BREAK DOWN	FROM	TO	TIME BREAK DOWN	FROM	TO	TIME BREAK DOWN
0	20	Sandy top soil	260	320	Shale & (hard stone)	500	510	Sandy Shale
20	60	Hard Stone	320	420	Shale			
60	120	Sandy Shale	420	440	Sandy Shale			
120	160	Sandy Shale	440	460	Shale			
160	240	Shale	460	480	Sandy Shale			
240	260	Brown Shale	480	500	Shale			

REMARKS -

REMARKS -

REMARKS -

Dilled to 510 with $6\frac{3}{4}$ Bit
Logged 500

Est 10 to 12 g.l.m. water

SIGNED: Toolpusher

Of me Donald

— Company Supervisor