

97A-30-039-21720

106-30-039 07027

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. 18 Twp 27N Rng 6W

Name of Well/Wells or Pipeline Serviced Rincon #97A mv Rincon #106 PC

Elevation Completion Date 8-20-79 Total Depth 580' 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. 90' deep 460' deep thickness?

Depths gas encountered: NA

Type & amount of coke breeze used: Type unknown 85 sacks

Depths anodes placed: 260' to 535

Depths vent pipes placed: 560'

Vent pipe perforations: 500'

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

RECEIVED
MAY 21 1990
OIL CON. DIV.
DIST. 2

WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

CONTRACT #2

Logging Log (Attach Hereto)

Completion Date 8-20-79

Well Name Rincon #97A + #106		Location SE18-27-6				CPS No. 1393W			
Type & Size Bit Used 6 3/4"		2" x 60" Duriron				Work Order No. 57363.21 + 53460.19			
Anode Hole Depth 580-565TD		Total Drilling Time		No. Sacks Mud Used		No. Sacks Mud Used			
Anode Depth		Anode Output (Amps)		Anode Depth		Anode Output (Amps)		Anode Depth	
# 1	535	# 2	527	# 3	519	# 4	511	# 5	503
# 6	495	# 7	487	# 8	479	# 9	405	# 10	260
# 1	2.3	# 2	2.3	# 3	3.1	# 4	3.9	# 5	3.1
# 6	3.2	# 7	3.0	# 8	2.5	# 9	2.1	# 10	4.4
# 11		# 12		# 13		# 14		# 15	
# 16		# 17		# 18		# 19		# 20	
Total Circuit Resistance		Volts		Amps		Ohms		No. 8 C.P. Cable Used	
		11.6		13.1		.88			

Remarks: ST #97A = .96 #106 = .77

WATER AT 100' WATER STANDING AT 85' NEXT AM DRILLED TO 580'
Logged 565' INSTALLED 560' OF VENT PIPE 500' PERFORATED

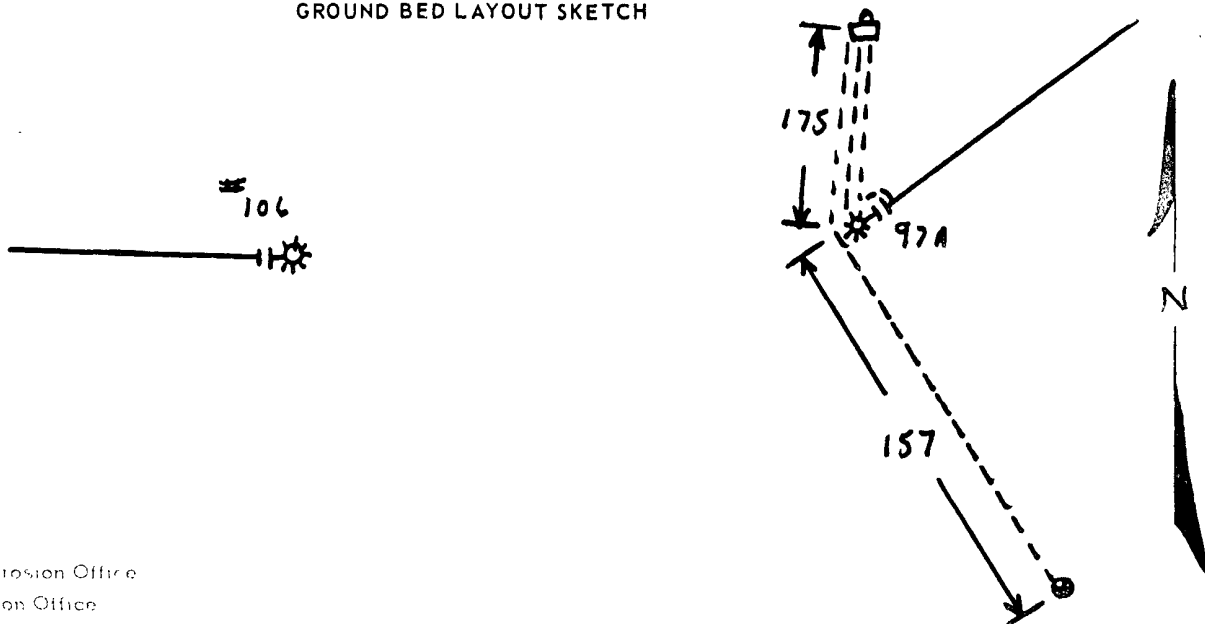
Hole depth = +65
DITCH + cable = ~~33732~~
EXTRA CABLE = ~~330370~~

40V16A Rect
20FT METER LOOP

All Construction Completed

Robert J. Balnick
(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: W.E. Borchert
File: _____

Rincon # 97-A ST=.96
Rincon # 106 ST=.77

179.14

SE 14-27-6

57363-21
53460-19

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 ⁱ	9.64
42.08	C3 ⁱ	9.67

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

96 +65
 77 390
 332
 Drilled to 580' Logged 565
 560' 500' 85'

8-14-79 10 Hrs WFL
 8-20-79 10 Hrs RFL

.4		410	.6
.5		420	.5
.9		30	.4
.9		40	.5
.8		50	.4
.4		50	.5
.1		60	.6
.1		60	.6
.1		70	.7
.1		70	.9
.2	10	80	.8
.2		80	1.2-8
.2	20	90	1.4-7
.3		90	1.4-6
.2	30	500	1.6-6
.1		500	1.6-5
.2	40	10	1.6-5
.2		10	1.8-4
.2	50		1.9
.3		20	1.5-3
.8	60		1.2
.7		30	1.2-2
.8	70		1.3-1
.7		40	1.0
.7	80		1.0
.7		50	1.0
.6	90		1.0
.7		60	
.6	400		
1.0		70	
		80	

① 535-1.6-2.3
 ② 527-1.4-2.3
 ③ 519-1.9-3.1
 ④ 511-2.6-3.9
 ⑤ 503-1.5-3.1
 ⑥ 495-1.8-3.2
 ⑦ 487-1.6-3.0
 ⑧ 479-1.5-2.5
 ⑨ 405-1.2-2.1
 ⑩ 260-1.2-4.4

11.6 V 13.1 A = 880 hms

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

Analysis No. 1-9709 Date 9-18-79

Operator EPNG Well Name RINCON #97-A #106

Location SE 18-27-6 County RIO ARRIBA State NM

Field _____ Formation _____

Sampled From 1393 W

Date Sampled _____ By _____

Tbg. Press. _____ Csg. Press. _____ Surface Csg. Press _____
 ppm epm ppm epm

Sodium 203 9 Chloride 32 .9

Calcium 326 16 Bicarbonate 249 4

Magnesium 90 7 Sulfate 1325 28

Iron PRESENT Carbonate 0 0

H₂S ABSENT Hydroxide 0 0

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

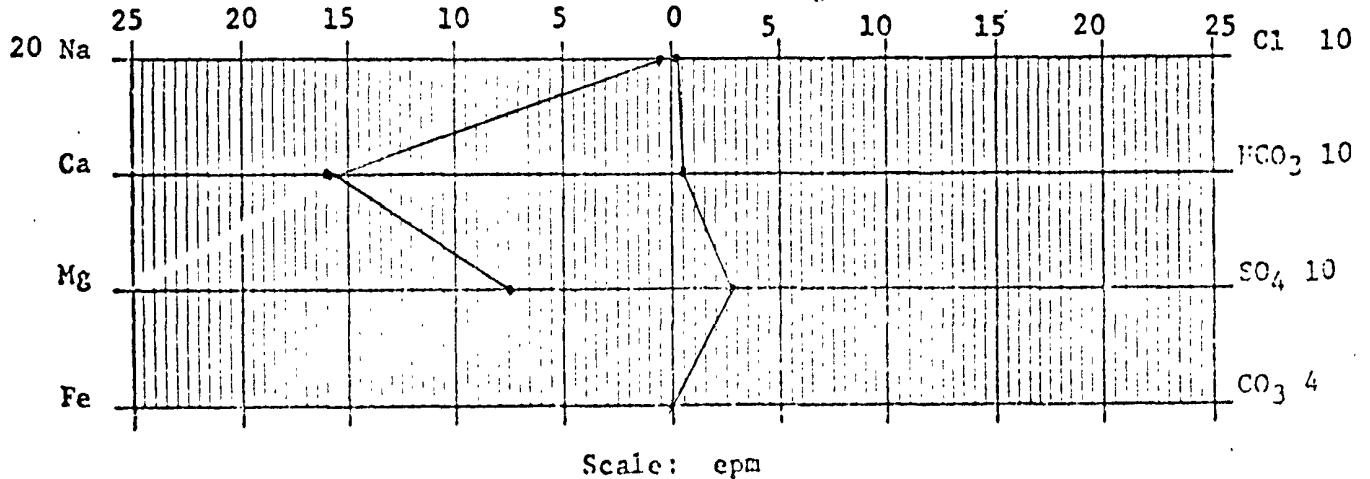
Total Solids Dissolved 2698

pH 7.7

Sp. Gr. 1.0027 at 60°F

Resistivity 286 ohm-cm at 77°F

J.C. Barrett
 Chemist



1393W

Contract #2
O'Brien

DATE Aug 20 1979

LEASE WELL NO. CONTRACTOR RIG NO. REPORT NO.

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.

MUD RECORD	MUD, ADDITIVES USED AND RECEIVED	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED	MUD RECORD	MUD, ADDITIVES USED AND RECEIVED
0 90 90 115 115 240 240 245	Sand wet Shale Sand Shale	465-540 540 580	Sandy Shale Sand		

FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN	FROM	TO	TIME BREAKDOWN
245 255 255 265 265 395 395 410 410 465		Sand Shale Sand Shale Sand water						

REMARKS -

Drilled To 580 w/ 674
Logged To 565
Water @ 90 + 460 - 2.9pm.

SIGNED: Toolpusher Lem O'Brien Company Supervisor Kurt Westmoreland