

#54 30-039-07068

#78 30-039-07081

#151 30-039-07084

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. 14 Twp 27N Rng 7WName of Well/Wells or Pipeline Serviced Rincon #78 MV Rincon #54 PCRincon #151 DKElevation 6565' Completion Date 10/21/76 Total Depth 320' Land Type* FCasing, Sizes, Types & Depths NoneRECEIVED
MAY 14 1980
OIL CON. DIV.
DIST. 3If 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. 70' deep Thickness unknown115' deep Thickness unknownDepths gas encountered: NAType & amount of coke breeze used: type unknown 4000 lbsDepths anodes placed: 70'-165'Depths vent pipes placed: NAVent pipe perforations: NARemarks: El Paso Natural Gas Co. was the operator at the time this ground bed was installed.GB #1, GB #2 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 10-21-76

Well Name RINCON #78 + #54 + #151				Location NE 14 - 27-7				CPS No. 1079W	
Type & Size Bit Used 6 3/4				Work Order No. 52952 52606					
Anode Hole Depth 10306'		Total Drilling Rig Time		Total Lbs. Coke Used 40 SACKS		Lost Circulation Mat'l Used		No. Sacks Mud Used 53912	
Anode Depth		Anode Output (Amps)		Anode Depth		Anode Output (Amps)			
# 1 165	# 2 150	# 3 140	# 4 130	# 5 120	# 6 110	# 7 100	# 8 90	# 9 80	# 10 70
# 1 2.9	# 2 2.3	# 3 2.8	# 4 2.3	# 5 2.5	# 6 2.1	# 7 2.4	# 8 2.5	# 9 2.5	# 10 2.3
Anode Depth		Anode Output (Amps)		Anode Depth		Anode Output (Amps)			
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance				No. 2 C.P. Cable Used				No. 2 C.P. Cable Used	
Volts 11.9		Amps 10.4		Ohms 1.14					

Remarks: **DRILLER SAID WATER @ 70' DRILLED 115' - NEXT**
A.M. BLEW WATER OUT OF HOLE
40 SACKS SLURRY

\$2,648.00
- 132.00 Depth Credit
215.00 Addn'l. Anodes
60.00 " " Cable

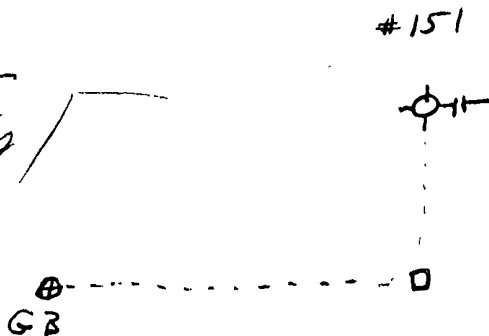
2,791.00
111.64

All Construction Completed

C.W. Hines
(Signature)

GROUND BED LAYOUT SKETCH

2,902.64
240.00 Coke
213.40 Insp.
50.00 Misc.
194.50 Rectifier
\$3,600.54 TOTAL



DISTRIBUTION:

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

El Paso Natural Gas Company
ENGINEERING CALCULATIONSheet: 10-2176
Date: 10-21-76
By: 1079W
File:RINCON # 78
54
151

NE 14.21-7

52952
52666
53912

1079W

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	9.64
42.08	C3	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

50		75	4				
60		80	2				
70	1.1	90	3				
80	1.1	300	4				
90	1.2	10	5				
100	1.1	20					
110	1.1	30					
120	1.0	40					
130	1.0						
140	1.1						
150	1.1						
160	1.2						
170	1.2						
180	1.0						
190	1.0						
200	1.1						
210	1.1						
220	1.1						
230	1.2						
240	1.2						
250	1.0						
260	1.0						
270	1.1						
280	1.1						
290	1.2						
300	1.2						
310	1.0						
320	1.0						
330	1.1						
340	1.1						
350	1.2						
360	1.2						
370	1.0						
380	1.0						
390	1.1						
400	1.1						
410	1.2						
420	1.2						
430	1.0						
440	1.0						
450	1.1						
460	1.1						
470	1.2						
480	1.2						
490	1.0						
500	1.0						
510	1.1						
520	1.1						
530	1.2						
540	1.2						
550	1.0						
560	1.0						
570	1.1						
580	1.1						
590	1.2						
600	1.2						
610	1.0						
620	1.0						
630	1.1						
640	1.1						
650	1.2						
660	1.2						
670	1.0						
680	1.0						
690	1.1						
700	1.1						
710	1.2						
720	1.2						
730	1.0						
740	1.0						
750	1.1						
760	1.1						
770	1.2						
780	1.2						
790	1.0						
800	1.0						
810	1.1						
820	1.1						
830	1.2						
840	1.2						
850	1.0						
860	1.0						
870	1.1						
880	1.1						
890	1.2						
900	1.2						
910	1.0						
920	1.0						
930	1.1						
940	1.1						
950	1.2						
960	1.2						
970	1.0						
980	1.0						
990	1.1						
1000	1.1						

10.4A
11.9V
1.14 RDRILLER SAID WATER @ 70'
DRIED 115' NEXT AM. BLEW WATER
OUT OF HOLE40 SACKS SLURRY
LOG - 306'

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE _____ WELL NO. 1019 W CONTRACTOR Perry RIG NO. _____ REPORT NO. _____ DATE 10-21 1976

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. _____				
SERI. NO. _____ STANDS _____					SERI. NO. _____ STANDS _____					SERI. 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	6	Surface	140	170	Shale			
6	18	Sand	170	175	Sandy Shale			
18	25	Shale	175	215	Sand			
25	50	Sandy Shale	215	220	Shale			
50	55	Shale	220	230	Sandy Shale			
55	65	Sand wet	230	233	Shale			

REMARKS -			REMARKS -		
65-70	Shale		233-247	Sand	Water at 70 ft.
70-72	Sand wet		247-255	Shale	
72-90	Shale		255-265	Sand	
90-110	Sand wet		265-280	Shale	
110-115	Shale		280-295	Sand	
115-120	Sand		295-300	Sand	
120-135	Shale		300-305	Sandy Shale	
135-140	Sandy Shale		305-320	Sand	

SIGNED: Toolpusher _____

Company Supervisor _____

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. 14 Twp 27N Rng 7W

Name of Well/Wells or Pipeline Serviced Rincon #78 MV Rincon #54 PC

Rincon #151 Dk

Elevation 6565' Completion Date 9/25/87 Total Depth 200' 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. 60' deep thickness-SEE ATTACHED

Depths gas encountered: NA

Type & amount of coke breeze used: Carbo 60 2700 lbs

Depths anodes placed: 115' to 155'

Depths vent pipes placed: 155'

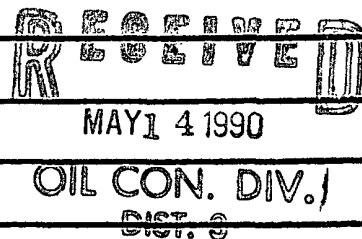
Vent pipe perforations: 115'

Remarks: Unocal was the operator at the time this ground bed was installed.

Second 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.



UNOCAL WELL RECORD

DATE 9/25/87

LEASE Rincon WELL NO. 78-54-151 FORMATION MV-PL-DK
PUMPER _____ PRESSURES: TP _____ CP _____ LP _____ MCFD _____
=====

SURFACE EQUIPMENT

WORK PERFORMED

SEPARATOR

INSTALL NEW LIDA Ground BED as REPLACEMENT

TANK

BED DRILLED 6 1/4" HOLE 200' DEEP USED FIVE

DEHY

ANODE STRING W/ANODES @ 115' 125' 135' 145'

INTERMITTER

155'

VALVE WORK

COPY OF DRILLING LOG AND ANODE LOG ATTACHEDCATH. PROTECTION

OTHER

SUB SURFACE EQUIPMEN

WORK PERFORMED

PLUNGER LIFT

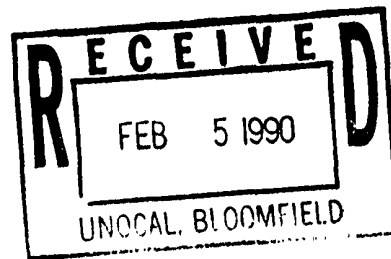
WIRELINE WORK

WELL CHARACTERISTIC: STATE IF AND WHEN WELL BLOWN, FLUID RECOVERED,
OR ANY UNUSUAL PROBLEMS.

RECOMMENDATIONS:

AG.

Cathodic Protection Services Company
P. O. Box 388
Farmington, New Mexico 87499
1608 Schofield Lane
Farmington, New Mexico 87401
(505) 325-1946



February 2, 1990

Unocal Corporation
3300 N. Butler, Suite 201
Farmington, NM 87401

Attention: Mr. Steve Gregory

Subject: Major Water Zones in Cathodic Protection Deep-Well Groundbeds

Dear Mr. Gregory:

Per your recent request for information concerning the cathodic protection deep-well groundbeds for your well casings in the San Juan Basin area, we are pleased to submit the following information.

Township & Range	Depths Ranging From Shallowest to Deepest	Average Depth	Average Thickness of Water Zone
T-25N - R-10W	110' - 140'	122.5'	20'
T-25N - R-11W	60' - 140'	93.3'	45'
T-26N - R-7W	80' - 150'	112.5'	30'
T-27N - R-7W	80' - 200'	123.3'	22.5'
T-27N - R-6W	80' - 200'	131.1'	30'

This data reflects information supplied by the drilling logs acquired at the time the wells were drilled. The depths shown are based on the type of sand which was being extruded from the drilled hole and the dampness of the sand.

The thickness of the water zones are determined by the change in the strata which was being drilled.

It has been a pleasure providing this information to your company. If you have any further questions or desire additional information, please do not hesitate to contact us.

Sincerely,

Cathodic Protection Services Company


John Kerr, Corrosion Technician

cc: Mike Tabet

CPS
Cathodic Protection Services
A LUKENS COMPANY