

#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

LOGGED

Drilling Log (Attach Hereto) ☐

Completion Date 10-21-76

Well Name RINCON # 78 + # 54 + # 151			Location NE 14 - 27 - 7			CPS No. 1079 W				
Type & Size Bit Used 6 3/4						Work Order No. 52952 52606				
Anode Hole Depth 19306'		Total Drilling Rig Time		Total Lbs. Coke Used 40 SACKS		Lost Circulation Mat'l Used		No. Sacks Mud Used 53912		
Anode Depth	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	165	150	140	130	120	110	100	90	80	70
Anode Output (Amps)	# 1	# 2	# 3	# 4	# 5	# 6	# 7	# 8	# 9	# 10
	2.9	2.3	2.8	2.3	2.5	2.1	2.4	2.5	2.5	2.3
Anode Depth	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)	# 11	# 12	# 13	# 14	# 15	# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance	Volts 11.9					Amps 10.4		Ohms 1.14		
No. 8 C.P. Cable Used						No. 2 C.P. Cable Used				

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

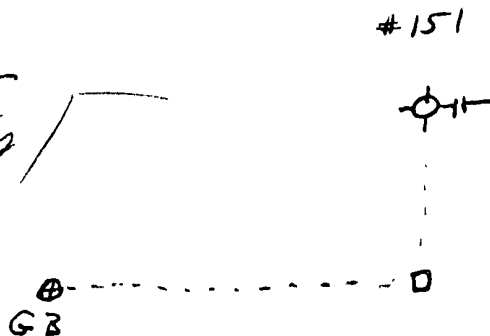
\$2,648.00
- 132.00 Depth Credit
215.00 Addnl. Anodes
60.00 " " Cable
2,791.00
111.64

All Construction Completed

C.W. Hines
(Signature)

GROUND BED LAYOUT SKETCH

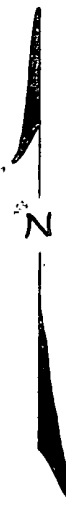
2,902.64
240.00 Coke
213.40 Insp.
50.00 Misc.
194.50 Rectifier
\$3,600.54 TOTAL



DISTRIBUTION:

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

#18
#54



RINCON # 78
54
151

NE 14. 21-7

52952
52666
53912

1079W

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

50		75	4				
60		80	2				
70	1.1	90	3				
80	1.1	3.00	4				
90	1.1	10	5				
100	1.1	20					
110	1.1	30					
120	1.1	40					
130	1.1		1	165	1.6	2.9	
140	1.1		2	150	1.1	2.3	
150	1.1		3	140	1.6	2.8	
160	1.1		4	130	1.3	2.3	
170	1.1		5	120	1.2	2.5	
180	1.1		6	110	1.2	2.1	
190	1.1		7	100	1.3	2.4	
200	1.1		8	90	1.5	2.5	
210	1.1		9	80	1.5	2.5	
220	1.1		10	70	1.6	2.3	
230	1.1						
240	1.1						
250	1.1						
260	1.1						
270	1.1						
280	1.1						
290	1.1						
300	1.1						
310	1.1						
320	1.1						
330	1.1						
340	1.1						
350	1.1						
360	1.1						
370	1.1						
380	1.1						
390	1.1						
400	1.1						
410	1.1						
420	1.1						
430	1.1						
440	1.1						
450	1.1						
460	1.1						
470	1.1						
480	1.1						
490	1.1						
500	1.1						
510	1.1						
520	1.1						
530	1.1						
540	1.1						
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560	1.1						
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590	1.1						
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610	1.1						
620	1.1						
630	1.1						
640	1.1						
650	1.1						
660	1.1						
670	1.1						
680	1.1						
690	1.1						
700	1.1						
710	1.1						
720	1.1						
730	1.1						
740	1.1						
750	1.1						
760	1.1						
770	1.1						
780	1.1						
790	1.1						
800	1.1						
810	1.1						
820	1.1						
830	1.1						
840	1.1						
850	1.1						
860	1.1						
870	1.1						
880	1.1						
890	1.1						
900	1.1						
910	1.1						
920	1.1						
930	1.1						
940	1.1						
950	1.1						
960	1.1						
970	1.1						
980	1.1						
990	1.1						
1000	1.1						

DRILLER SAID WATER @ 70'
DRIED 115' NEXT AM. BLEW WATER
OUT OF HOLE

40 SACKS SLURRY
LOG - 306'

EL PASO NATURAL GAS COMPANY
DRILLING DEPARTMENT

DAILY DRILLING REPORT

LEASE _____ WELL NO. 1019 W CONTRACTOR Posy 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.
SERIAL NO.		NO. DC	SIZE	LENG.	SERIAL NO.		NO. DC	SIZE	LENG.	SERIAL NO.		NO. DC	SIZE	LENG.
SIZE		STANDS			SIZE		STANDS			SIZE		STANDS		
TYPE		SINGLES			TYPE		SINGLES			TYPE		SINGLES		
MAKE		DOWN ON KELLY			MAKE		DOWN ON KELLY			MAKE		DOWN ON KELLY		
TOTAL DEPTH					TOTAL DEPTH					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 -	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'

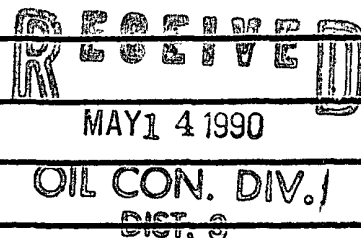
Vent pipe perforations: 115'

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.



COMPANY UNOCAL JOB NO. 13603 DATE: 9-25-87
WELL: RINGOZ #78-#54-#151 PIPELINE: _____
LOCATION: SEC. 14 TWP. 27N RGE. 7W CO _____ STATE NM
ELEV. _____ FT: ROTARY 200' FT: CABLE TOOL _____ FT: CASING -0- FT.
GROUNDED: DEPTH 200' FT. DIA. 6 1/4 IN. GAS _____ LBS. ANCHORS 5 LIP L STRING

[illegible]

GROUNDING RESISTANCE: (1) VOLTS 12.6 - AMPS 6.8 - 1.85 OHMS

(2) VIBROGROUND _____ QMS

GENERAL CATHODIC PROTECTION SERVICES CO.
A LUKENS COMPANY

UNOCAL WELL RECORD

DATE 9/25/87

LEASE RinconWELL NO. 78-54-151FORMATION 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 STRUNG 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

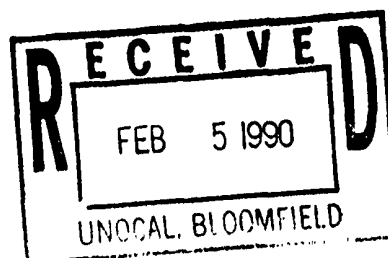
WIRELINE WORK

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

RECOMMENDATIONS:

AS.

Catholic 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,

Catholic Protection Services Company


John Kerr, Corrosion Technician

cc: Mike Tabet

CPS
Catholic Protection Services
A LUKENS COMPANY