

30-045-22035

**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. 12 Twp 25N Rng 11W

Name of Well/Wells or Pipeline Serviced Navajo 2-0-12

Elevation Completion Date 12/14/89 Total Depth 300' Land Type* I

Casing, Sizes, Types & Depths 20' of 6" DIA. PVC - surface casing

If Casing is cemented, show amounts & types used None

RECEIVED
MAY 1 1990
OIL CON. DIV.

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 45' Thick

SEE ATTACHED SHEET

Depths gas encountered: NA

Type & amount of coke breeze used: Carbo 60 2500 lbs

Depths anodes placed: 135' to 175'

Depths vent pipes placed: 175'

Vent pipe perforations: 135'

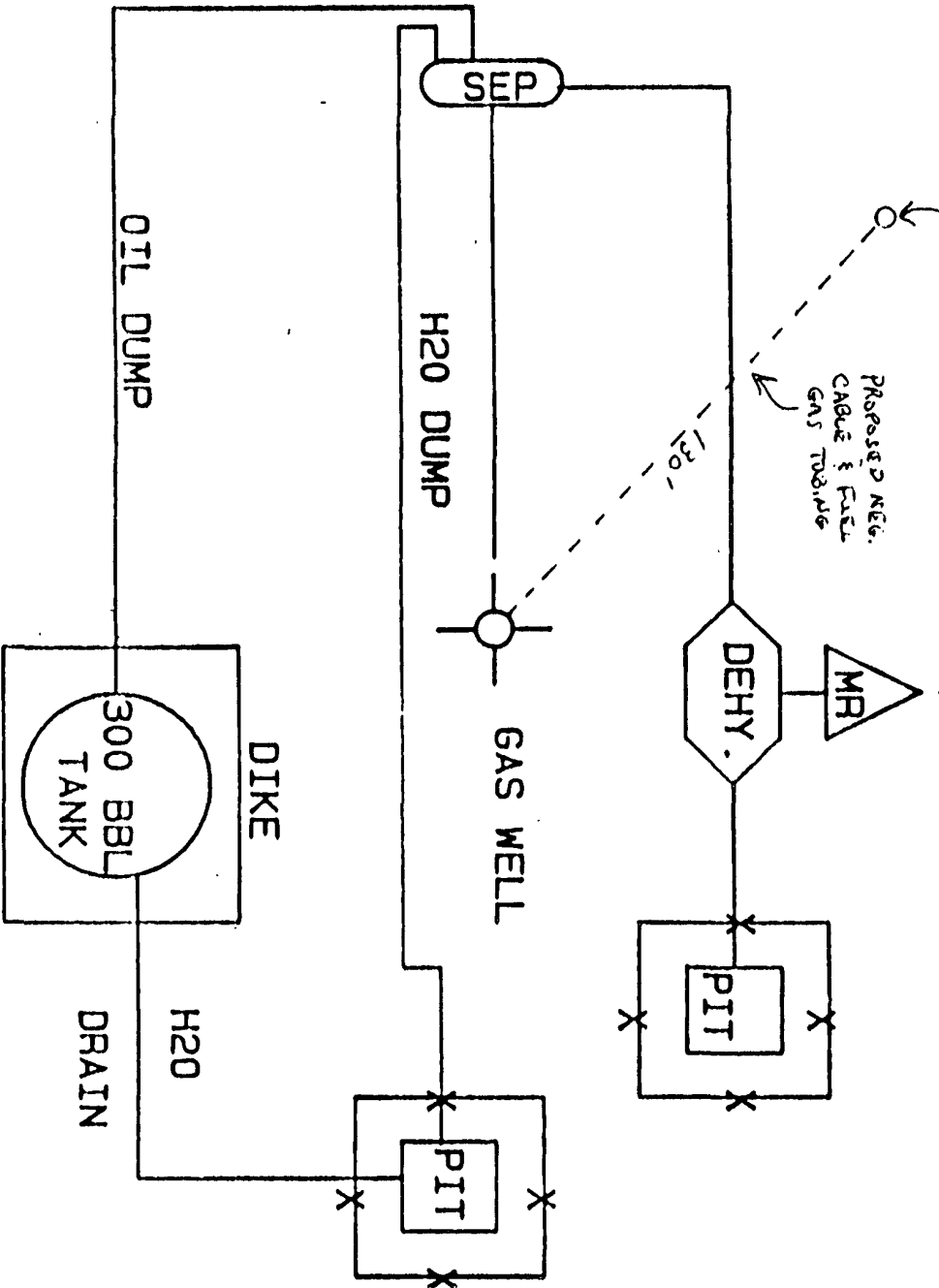
Remarks: Unocal was the operator at the time this ground bed was installed.

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.

PROPOSED
GROUND
BED



REMARKS

	NAVAJO 2-0-12	DK
	SEC 12 T35N R14W	
	LEASE # 400-0-44-20-3781	
	METER NO. 56971	
	DATE: 08/27/89	
	CFAI E. NONE	

UNOCAL

WELL TYPE GROUNDING DATA
DATA SHEET NO. 101

COMPANY UNION JOB NO. 00027 DATE: 12-14-89
WELL: WANA TO # 2-0-12 PIPELINE:
LOCATION: SEC 12 TWP 25 RGE 11 CO SAW (TOWN) STATE IL 122-1
ELEV. FT: ROTARY 300 FT: CABLE TOOL 0 FT: CASING 30
GROUNDED: DEPTH 300 FT. DIA. 6 IN. WAS 3000 LBS. AIRCLOS. 4x10/8 2.6x10/8

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO CATH 1	VOLT CATH 1	ANODE NO.	DEPTH TOP OF ANODE
		E	I	R				
	First water 60							
	0-120 sand							
120			4.8					
5			4.9					
30			6.0					
5	Top of Linda Anodes		6.2			6.4	18.8	135
40			6.5					
5			6.5					
60			6.1					
5			6.0					
60			6.2					
5			6.4					
70			6.2					
5			6.4					175
80			6.2					
5			6.0					
90			5.8					
5			5.9					
200			5.0					
5			5.2					
10			5.0					
5			4.3					
20			4.3					
5			4.2					
30			4.0					
5			4.0					
40			4.0					
5			4.0					
50			3.8					
5			3.6					
60			4.0					
5			4.0					
70			4.3					
5			3.8					
80			3.7					
5			3.6					
90			3.5					
5			4.0					
300	T.D. 300							

GROUNDED RESISTANCE: (1) VOLTS 12.7 - AMPS 18.8 - 0.67 OHMS

(2) VIBROGROUNDED OHMS



JOB NUMBER 751-00027	DATE 12/18/89	INVOICE NO 751415
-------------------------	------------------	----------------------

INVOICE

REMIT TO
P.O. BOX 297294
HOUSTON, TX 77297

PAYMENT DUE DATE 1/18/90



PAYMENT OF THE FULL
AMOUNT OF THIS INVOICE
IS DUE, IN ACCORDANCE
WITH CONTRACT TERMS.

Unocal Oil & Gas Division
Unocal Corporation
P.O. Box 850
Bloomfield, NM 87413
Attn: Mr. Mike Tabet & Accts. Payable

CUSTOMER NUMBER
541168

CONTRACT NO. & NAME AFE - 392129 CONTRACT DATE 8/7/89 & 10/2/89

ITEM NO.	DESCRIPTION	PRICE	UNIT	% COMPLETE	AMOUNT EARNED
	Providing all necessary materials, labor, supervision, equipment and other pertinent items to install a groundbed to a depth of 300 feet, as follows:				
1.	Well: Mavajo #2-0-12	\$3,496.00	ea	100%	\$3,496.00
a.	Provision and installation of (6" diameter) PVC surface casing = 20 ft.	17.50	ft	100%	350.00

NOTES

TERMS: NET 30 DAYS. LATE PAYMENT ADMINISTRATION FEE OF 1.5% PER MONTH WILL BE CHARGED AFTER THE DUE DATE.

LESS - RETAINAGE @

Plus 5.25% New Mexico State and San Juan County tax
LESS - PREVIOUS INVOICES

\$3,846.00

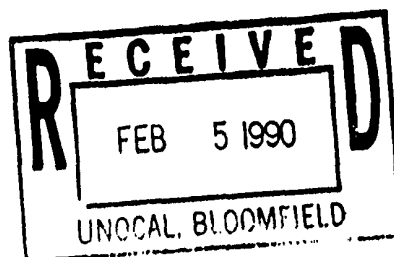
201.92

AMOUNT OF THIS INVOICE →

\$4,047.92

ACCOUNTING COPY

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

