CPS 404

30045-25759

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. 30 Twp 25N Rng 10W

Name of Well/Wells or Pipeline Serviced Navajo 9-D-30

Elevation ___ Completion Date 12/13/89 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

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. 110' deep 20' thick

SEE ATTACHED SHEET

RECEIVED
MAY1 4 1990
OIL CON. DIV.
DIST. 3

Depths gas encountered: NA

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

Depths anodes placed: 170' to 210'

Depths vent pipes placed: 210'

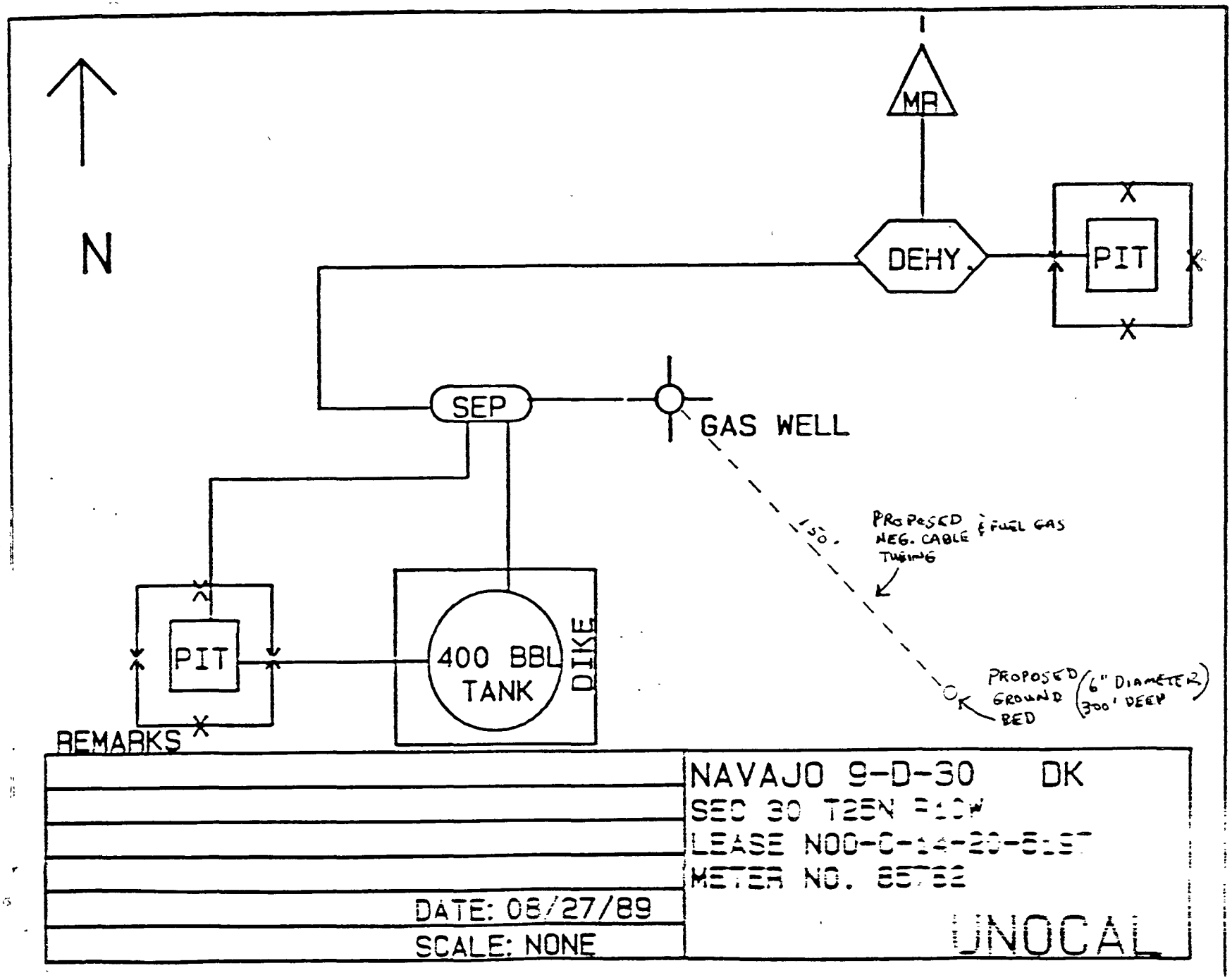
Vent pipe perforations: 170'

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

First ground be 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.


N
MR
DEHY.
PIT
SEP
GAS WELL
150'
PROPOSED & FUEL GAS
NEG. CABLE
TUBING
PROPOSED
GROUND
BED
(6" DIAMETER
300' DEEP
PIT
400 BBL
TANK
DIKE
REMARKS
NAVAJO 9-D-30 DK
SEC 30 T28N R10W
LEASE NOO-C-14-20-5157
METER NO. 85782
DATE: 08/27/89
SCALE: NONE
UNOCAL

DATA SHEET NO. 1 of 1

751-

COMPANY Unocal JOB No. 00027 DATE: 12-13-89

WELL: Navajo # 9-D-30 PIPELINE:

LOCATION: SEC. 30 TWP 35 RGE. 10 CO. San Juan STATE Utah

ELEV. ____ FT: ROTARY 300 FT: CABLE TOOL ____ FT: CASING 30 FT

GROUNDBED: DEPTH 300 FT. DIA. 6 IN. GAS 300# LBS ANODES Linde Standard

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE E	I	K	HO COEF. I	WELL COEF. I	ANODE NO.	DEPTH TO TOP OF ANODES
	First Water 110							
	0 – 140 Sand							
140			4.1					
5			3.7					
50			4.8					
5			4.4					
40			5.0					
5			5.2					
70	Top of Linde Anodes		5.5		5.5	21.8		170
5			5.4					
40			5.4					
5			5.4					
90			5.3		Linde Standard			
5			5.2					
200			5.2					
5			5.4					
10			5.4					310
5			5.4					
20			5.2					
5			5.0					
30			4.8					
5			4.8					
40			4.7					
5			4.3					
50			4.0					
5			4.0					
40			4.0					
5			3.7					
70			3.5					
5			3.5					
80			3.5					
5			3.3					
90			3.6					
5			3.0					
300	T D 300							

GROUNDBED RESISTANCE: (1) VOLTS 12.3 – AMPS 21.8 – 0.56 OHMS

(2) VIBROGROUND _____ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO

JOB NUMBER		INVOICE NO.
751-00027	12/18/89	751414

Cathodic Protection Services
A LUKENS COMPANY

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 #9-D-30	$3,496.00	ea	100%	$3,496.00
a.	Provision and installaiton of PVC (6" diameter) surface casing = 20 ft.	17.50	ft	100%	350.00

NOTES

	$3,846.00
LESS – RETAINAGE @	
Plus 5.25% New Mexico State and San Juan County tax	201.92
LESS – PREVIOUS INVOICES	
AMOUNT OF THIS INVOICE →	$4,047.92

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

ACCOUNTING COPY

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

Cathodic Protection Services
A LUKENS COMPANY