CITATION OIL & GAS CORPORATION
Water Analysis Report
State Y #1

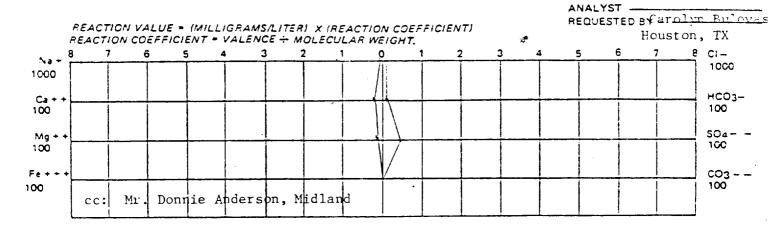
'Al	E POTENTIA	L OF THIS WAT	R
	VERY	SLIM POSSIBILITY	NONE
C*CO3	回		
CaSO <sub>4</sub>			
82504			J
Acid Retu	rns,	OSF 00	• 🗇

## SAMPLE DESCRIPTION

COMPANY Shell Oil Company		LABORATORY Mart	in Water Labs., Inc.
FIELDlalmat	¥	LABORATORY NUMBER	108330
LEASE Jalmat	<u> </u>	DATE SAMPLE TAKEN	
WELL NUMBER 1 Y		DATE SAMPLE RECEIVE	10-4-83
well number 1 Y Lea, NY		DATE SAMPLE REPORT	ED 10-10-83
PEODUCING FORMATION	<del></del>		
WHERE SAMPLED			
FEMARKS			
HEMICAL AND PHYSICAL PROPERTIES			
TOTAL HARDNESS Mg/L AS Ca CO3 2,800	- <del>-</del>	TOTAL ALKALINITY M	g/L AS Ca CO3520
CONSTITUENT	Mg/LITER	REACT. COEF.	Meg/LITER
SODIUM (INCL. POTASSIUM) AS Na +	1,628	0.04350	70.8
CALCIUM - Ca + +	692	0.04990	34.5
MAGNESIUM - Mg + +	260	0.08224	21.4
RON TOTAL - Fe + + & Fe + + +	0.23	0.03581	0.0
EARIUM Ba++	<u> </u>	0.01460	
POSITIVE SUB-TOTAL	2.580		126.7
CHLORIDE - CI -	2.521	0.02820	71.1
CARBONATES BICARBONATES 31 - & HCO3 -	634	0.01639 *	10.4
SULFATE - SO4=	2,095	0.02082	43.6
HYDROXYL - OH -	0	0.05880	0.0
SULFIDE - S =	25.9	0.96238	1.6
NEGATIVE SUB-TOTAL	5.276		· 126.7
TOTAL DISSOLVED SOLIDS	7,859		253.4

\* SICARBONATE

SPECIFIC GRAVITY 1.0108 @ 60 OF PH 7.4 RES. 0.850 @ 80 OF



## INJECTION WELL DATA SHEET

, 1		LEASE		
V-1	380' FNL 380' FWL FOOTAGE LOCATION	Sec 36 SECTION	T24S TOWNSHIP	R36E RANGE
Sche	matic		Tabular Data	
	•	Surface Casing at 78		
Attached		Size 13-3/8		ith 60 sx.
		Toc Surface	feet determined (	by Circulation
		Hole size17-1		
		Intermediate Casing	at 1195'	
		Size 8-5/8		ith 750 sx.
•		TOC Surface	_	
		Hole size 12-1/	<u>′4</u>	
	•	<u>Long string</u> at 2636'	·	
		Size5-1/2		th 350 sx.
		TOC 1000	-	***************************************
		Hole size7_7		
		Total depth 294	2	
	•	Injection interval		
•	•	(perforated or open-h Open Hole	ole, indicate whic	n ;
			·	
biog give	2-3/8 line	d with Plastic		set :n a
		(mat	erial)	set in a
	2-3/8 linea ker Model "G" and and model)	d with Plastic (mate		set in a
Bal (bra		(mate		
Bal (bra or describe ther Data	ker Model "G" and and model) any other casing-tubing	(mate		
Bal (bra r describe her Data Name of	ker Model "G" and and model) any other casing-tubing the injection formation	mates (mates)		
Bal (bra r describe her Data Name of	ker Model "G" and and model) e any other casing-tubing the injection formation Field or Pool (if applic	yates  yates  yate	at <u>2600</u>	
Bal (bra or describe her Data Name of Name of Is this	ker Model "G" and and model) e any other casing-tubing the injection formation Field or Pool (if applications and the model)	yates  cable) Jalmat  injection? /// Yes	<u>2600</u> <u>/√</u> 7 No	feet
Bal (bra or describe her Data Name of Name of Is this	ker Model "G" and and model) e any other casing-tubing the injection formation Field or Pool (if application) a new well drilled for	yates  rable) Jalmat  injection? /// Yes  well originally drilled	at <u>2600</u> <u>/x</u> <sup>7</sup> № d? Originally dr	feet
Bal (bra or describe ther Data Name of Name of Is this If no, f	ker Model "G" and and model) any other casing-tubing the injection formation Field or Pool (if application a new well drilled for for what purpose was the mpleted as a producing well ever been perforate	yates  yates  cable) Jalmat  injection? ////////////////////////////////////	/X/ No d? Originally droresent the well to the such point of the such points.	feet illed and is temporarily abar
Bal (bra cor describe ther Data)  Name of Name of Is this If no, for the and give we we were the corrections of the corrections	ker Model "G" and and model) any other casing-tubing the injection formation Field or Pool (if application a new well drilled for for what purpose was the mpleted as a producing	Yates  yates  cable) Jalmat  injection? /// Yes  well originally drilled  oil & gas Well. At p  ed in any other zone(s)  of cement or bridge place	/X/ No d? Originally droresent the well of the such progression of the such pr	illed and is temporarily abar

in this well bore. The Queen formation,  $\pm 3500$  underlies the injection interval and

is productive in the area.