## 709 W. INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

## RESULT OF WATER ANALYSES

		LABORATORY NO. 29186 (Page			
Mr. Larry Johnson		SAMPLE RECEIVED	2_5_0	2_5_01	
m o m 700 ** 11 **** 000/0		RESULTS REPORTE	0 10	0 10 01	
COMPANY Texaco, Inc.	LEASE	Jal V	Water System	,	
FIELD OR POOL		···			
SECTION BLOCK SURVEY		Lea .	STATE NM		
SOURCE OF SAMPLE AND DATE TAKEN:					
No. 1 Raw water - taken fro	m Jal water supp	ly well #3. 2	2-5-91		
NO. 2 Unit Letter L, Sec					
NO. 3					
NO. 4					
REMARKS:					
CHEM	ICAL AND PHYSICAL	PROPERTIES		<del>, </del>	
	NO. 1	NO. 2	NO. 3	NO. 4	
Specific Gravity at 60° F.	1.0110		<u> </u>		
pH When Sampled	6.6				
pH When Received	7.14		<u> </u>		
Bicarbonate as HCO3	659				
Supersaturation as CaCO3	0			ļ	
Undersaturation as CaCO3				<u> </u>	
Total Hardness as CaCO3	3,325	<del></del>	<u> </u>	<del></del>	
Calcium as Ca	860	<del></del>	<del> </del>	<b></b>	
Magnesium as Mg	286		ļ		
Sodium and/or Potassium	3,537	<del></del>	<u> </u>	ļ	
Sulfate as SO4	2,656			ļ	
Chloride as CI	5,468				
Iron as Fe	0.48	<del></del>	ļ·		
Barium as Ba	0		<del> </del>	ļ <u>-</u>	
Turbidity, Electric	6			ļ	
Color as Pt				ļ	
Total Solids, Calculated  Temperature °F.	13,465				
Carbon Dioxide. Calculated	82		<del> </del>		
	270	<del></del> -	<del> </del>		
Dissolved Oxygen,	0.000	<del>'</del>			
Hydrogen Sulfide  Resistivity, ohms/m at 77° F.	212	<del>- </del>	<del> </del>	<del> </del>	
Suspended Oil	0.550	<u> </u>	<del> </del>	<del></del>	
Filtrable Solids as mg/;	4.7				
Volume Filtered, ml					
· Crome 1 1 Mercel, mil	4,000	<del> </del>		<u> </u>	
		<del> </del>	<del> </del>		
		<del> </del>			
R	esults Reported As Milligra	ms Per Liter	L	<u> </u>	
	tify a minor amo		all of the	wells excent	
Jal #3, but the magnitude of					
action. In summary, we have	identified no de	velopment in	any of these	wells that	
would lead us to suggest any	changes be made	at this time	, or enese	Luar	
		chito cime.		<del></del>	
			<del></del>		

Form No. 3

PRONGHORN SWD CASE NO. 10693
Before Examiner Stogner
May 6, 1993

Waylan C. Martin, M.A.

## Unichem International

## 707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company: CHEVRON, USA
Date: 04-11-1990
Location: EMSU - #457 (on 04-09-1990)

	Sample 1
Specific Gravity:	1.014
Total Dissolved Solids:	18955
:Hq	7.10
IONIC STRENGTH:	0.421

CATIONS: Calcium Magnesium Sodium Iron (total) Barium	(Ca <sup>+ 2</sup> ) (Mg <sup>+ 2</sup> ) (Na <sup>+ 1</sup> ) (Fe <sup>+ 2</sup> ) (Ba <sup>+ 2</sup> )	me/liter 52.4 83.6 190 0.007 0.010	mg/liter 1050 1020 4360 0.200 0.700
ANIONS: Bicarbonate Carbonate Hydroxide Sulfate Chloride	(HCO <sub>3</sub> - 1) (CO <sub>3</sub> - 2) (OH-1) (SO <sub>4</sub> - 2) (Cl-1)	12.0 0 0 54.1 259	732 0 0 2600 9200
<u>DISSOLVED GASES</u> Carbon Dioxide Hydrogen Sulfide	(CO <sub>2</sub> ) (H <sub>2</sub> S)		120 255

	SCALING	INDEX	(positive	value	indicates	scale)
				Ca	alcium	Calcium
Tempe:	<u>rature</u>			Car	rbonate	Sulfate
86°F	30°C				0.52	-6.0