### MITCHELL ANALYTICAL LAE TRATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

#### Water Analysis

Company Nalco/Exxon Well # WIS DISCHARG Lease ALTURA NHU Location Date Run 11/08/1999 Lab Ref # 99-NOV-N0512	GE PUMP	nemicals	Sample Temp Date Sampled Sampled by Employee # Analyzed by	11/05/1999 Mike Athey 27-008	
•	Di	ssolved Gasses	S		
Hydrogen Sulfide Carbon Dioxide Dissovled Oxygen	(H2S) (CO2) (O2)	Not Analyzed Not Analyzed	Mg/L 486.00	Eq. Wt. 16.00	MEq/L 30.38
		Cations			
Calcium Magnesium Sodium Barium Manganese	(Ca++) (Mg++) (Na+) (Ba++) (Mn++)	Not Analyzed Not Analyzed	804.00 195.20 3,459.66	12.20	40.00 16.00 150.42
		Anions			
Hydroxyl Carbonate Bicarbonate Sulfate Chloride	(OH-) (CO3=) (HCO3-) (SO4=) (C1-)	Not Analyzed	0.00 1,869.66 1,700.00 5,005.50		0.00 30.60 34.84 141.00
Total Iron Total Dissolved Sol Total Hardness As ( Conductivity MICRON	CaCO3		0.30 13,520.32 2,810.32 23,500	18.60	0.02
pH 6.500	Spe	ecific Gravity	60/60 F. 1	1.009	
CaSO4 Solubility @	80 F.	46.63 MEq/L,	CaSO4 scale	s unlikely	
CaCO3ScaleIndex70.00.19080.00.31090.00.530100.00.530110.00.790120.00.790130.01.090140.01.090150.01.370					

## Nalco/Exxon Energy Chemicals

# S S

#### Laboratory Services, Inc.

4016 Fiesta Drive Hobbs, New Mexico 88240 Telephone: (505) 397-3713

#### Water Analysis

COMPANY	Altura Energy Ltd,				
SAMPLE SAMPLED BY	Fresh Water Well f	for Well NHU 28332			
DATE TAKEN REMARKS	8/8/00 T18S-R38E-Sec28; Ç	Otr Sec 2,3,2			
Barium as Ba Carbonate alkalin Bicarbonate alkalin PH at Lab Specific Gravity © Magnesium as My Total Hardness as Chlorides as Cl Sulfate as SO4 Iron as Fe Potassium Hydrogen Sulfide Rw Total Dissolved S Calcium as Ca	inity PPM  60°F  g s CaCO3	0 60 212 7.44 1 169 292 127 120 0.1 0.1 0 13 815 123	@ 23° C	•	
Nitrate		3			
Results reported as Pa	arts per Million unless stated on Index	-0.23			

Analysis by: Vickie Walker
Date: 8/11/00



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#### Water Analysis

COMPANY	Altura Energy Ltd,
SAMPLE SAMPLED BY	Fresh Water Well for Well NHU 28332
DATE TAKEN REMARKS	8/8/00 T18S-R38E-Sec28; Qtr Sec 2,3,2
Barium as Ba Carbonate alkalin Bicarbonate alkalin PH at Lab Specific Gravity @ Magnesium as Month of the second o	7.52 9.60°F 1 9.162 S.CaCO3 280 118 165 0 0.1
Nitrate	4
Results reported as Pa	arts per Million unless stated on Index -0.05

Analysis by: Vickie Walker
Date: 8/11/00