



Water Analysis Report by Baker Petrolite

OXY USA
OXY KNIGHT FEDERAL
WELL # 1
WATER TANK

Account Manager
FRANK WONER

Summary		Analysis of Sample 114154 @ 75°F					
Sampling Date	12/18/98	Anions	<i>mg/l</i>	<i>meq/l</i>	Cations	<i>mg/l</i>	<i>meq/l</i>
Analysis Date	1/6/99	Chloride	277	7.81	Sodium	204	8.88
Analyst	JOANNA REGAN	Bicarbonate	183	3.00	Magnesium	3.00	0.25
		Carbonate	0.00	0.00	Calcium	13.0	0.65
TDS (mg/l or g/m ³)	715.956	Sulfate	1.00	0.02	Strontium	0.70	0.02
Density (g/cm ³ or tonne/m ³)	1.003	Phosphate	N/A	N/A	Barium	0.05	0.00
Anion/Cation Ratio	1.00	Borate	N/A	N/A	Iron	18.0	0.57
		Silicate	N/A	N/A	Potassium	18.0	0.46
Carbon Dioxide	130 PPM				Aluminum	N/A	N/A
Oxygen				<10 PPM	Chromium	N/A	N/A
					Copper	N/A	N/A
		pH at time of sampling		6.85	Lead	N/A	N/A
		pH at time of analysis			Manganese	N/A	N/A
		pH used in Calculations		6.85	Nickel	N/A	N/A

Conditions		Values Calculated at the Given Conditions - Amounts of Scale in lb/1000bbl					
Temp.	Gauge Press.	Calcite CaCO ₃	Gypsum CaSO ₄ · 2H ₂ O	Anhydrite CaSO ₄	Celestite SrSO ₄	Barite BaSO ₄	CO ₂ Press.
°F	psi	Index Amount	Index Amount	Index Amount	Index Amount	Index Amount	psi
80	0.	-1.26	-4.28	-4.36	-3.82	-1.89	0.38
100	0.	-1.11	-4.28	-4.28	-3.80	-2.03	0.49
120	0.	-0.98	-4.26	-4.18	-3.76	-2.13	0.61
140	0.	-0.79	-4.23	-4.07	-3.71	-2.21	0.74

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered.

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the five scales.

Note 3: The reported CO₂ pressure is actually the calculated CO₂ fugacity. It is usually nearly the same as the CO₂ partial pressure.

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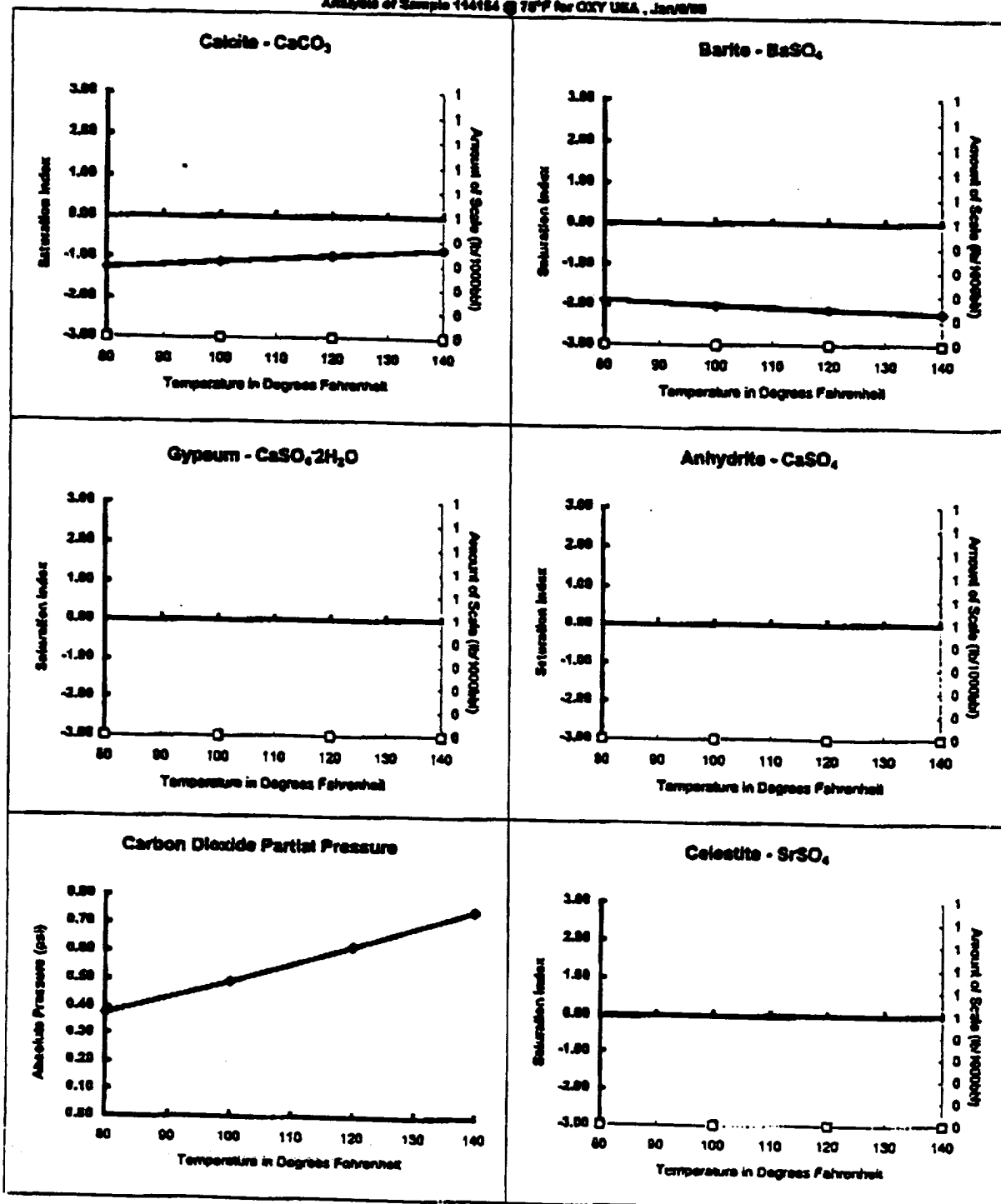


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BLM
ROSWELL, NM

Scale Predictions from Baker Petrolite

Analyte of Sample 114154 @ 75°F for OXY USA, Jan 1998



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