



COOK TESTING CO.

WATER ANALYSIS REPORT

Company Apache Corporation

County Lea Co., N.M.

Lease Williams Est. # 1

Address 1000 Wilco Building

Field Wild Cat

Well No. Williams Est. # 1

Date Sampled 1-17-60

Formation San Andres

Depth 2124' - 2300'

WATER ANALYSIS

Reported as Mg per Liter

Sample

Source

Top

Sample

Source

Bottom

Sample

Source

Bottom

Specific Gravity

1.040 @ 74°

1.000 @ 74°

1.005 @ 74°

Chloride

24,000

16,500

15,000

Bicarbonate

1,035

454

822

Sulfate

2,100

2,500

2,200

Sulfide

none detected

none detected

none detected

pH

6.8

6.8

6.8

Calcium

2,160

2,600

1,710

Magnesium

264

40

312

Total Iron

Sodium (Calc.)

48,930

10,166

15,824

Total Dissolved Solids (Calc.)

61,469

21,263

43,100

Total Hardness (as Ca Co₃)

6,500

4,300

2,400

Water Resistivity (Calc.)

Na 1000	8	7	6	5	4	3	2	1	0	1	2	3	4	5	6	7	8	Cl 1000
Ca 100																		HCO ₃ 100
Mg 100																		SO ₄ 100

Remarks:

Analysis By: Harry Harrison - NeOx Cardinal Chemical