

ANALYTICAL REPORT

DATE 6/24/81
 ANALYST S. Hoatson
 TYPE SAMPLES GEOTHERMAL WATER

REQ. NO. 9188 JOB NO. _____
 PROJECT 1030
 REQUESTED BY John Deymonaz

| SAMPLE | Na | K | Ca | Mg | SiO ₂ | SAMPLE | Li | B | SO ₄ | Cl | F |
|------------|-----|-----|-----|-----|------------------|------------|-----|-----|-----------------|-----|-----|
| | PPM | PPM | PPM | PPM | PPM | | PPM | PPM | PPM | PPM | PPM |
| 01 W-14361 | 9.2 | 2.2 | 52. | 24. | 20. | 31 W-14361 | 4.1 | 4.2 | 35. | 4.8 | 0.3 |
| 02 62 | 55. | 11. | 32. | 9.5 | 48. | 32 62 | 4.1 | 0.3 | 18. | 8.2 | 1.3 |
| 03 63 | 26. | 7.8 | 30. | 6.7 | 66. | 33 63 | 4.1 | 4.2 | 30. | 13. | 0.3 |
| 04 64 | 12. | 4.9 | 12. | 4.1 | 67. | 34 64 | 4.1 | 4.2 | <10 | 5.2 | 0.2 |
| 05 65 | 14. | 5.2 | 14. | 4.8 | 64. | 35 65 | 4.1 | 4.2 | <10 | 3.6 | 0.2 |
| 06 66 | 21. | 3.9 | 18. | 2.5 | 61. | 36 66 | 4.1 | 4.2 | <10 | 4.0 | 0.2 |
| 07 67 | 7.6 | 3.7 | 18. | 5.3 | 30. | 37 67 | 4.1 | 4.2 | <10 | 1.2 | 0.3 |
| 08 w14368 | 13. | 6.0 | 28. | 7.4 | 38. | 38 w14368 | 4.1 | 4.2 | 11. | 3.4 | 0.4 |
| 09 | | | | | | 39 | | | | | |
| 10 W- | | | | | | 40 W- | | | | | |
| 11 | | | | | | 41 | | | | | |
| 12 | | | | | | 42 | | | | | |
| 13 | | | | | | 43 | | | | | |
| 14 | | | | | | 44 | | | | | |
| 15 | | | | | | 45 | | | | | |
| 16 | | | | | | 46 | | | | | |
| 17 | | | | | | 47 | | | | | |
| 18 | | | | | | 48 | | | | | |
| 19 | | | | | | 49 | | | | | |
| 20 W- | | | | | | 50 W- | | | | | |
| 21 | | | | | | 51 | | | | | |
| 22 | | | | | | 52 | | | | | |
| 23 | | | | | | 53 | | | | | |
| 24 | | | | | | 54 | | | | | |
| 25 | | | | | | 55 | | | | | |
| 26 | | | | | | 56 | | | | | |
| 27 | | | | | | 57 | | | | | |
| 28 | | | | | | 58 | | | | | |
| 29 | | | | | | 59 | | | | | |
| 30 | | | | | | 60 | | | | | |

METHODS: Digestion-

Sample Weight-

Na, K, Ca, Mg, SiO₂, Li: AA

Determination- B: CARMINIC ACID COLORIMETRIC

F: SPECIFIC ION ELECTRODE

REMARKS:

Cl: MERCURIMETRIC TITRATION

SO₄: TURBIDIMETRIC

NOTE: Mail Original to
 AMAX Exploration, Inc.,
 P. O. Box C
 Denver, Colorado 80226

Copies to: John Deymonaz @ Geothermal
 ✓ 1. H. D. Pilkington At Geothermal
 2. Geothermal Office At
 3. E. J. Rowe At Denver Lab
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LAB AMAX - DENVER

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ANALYST S. Hoatson

PROJECT 1030

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY John Deymonaz

| SAMPLE | Cu | Mo | SAMPLE | pH | CO ₃ | HCO ₃ |
|--------|-----|-----|--------|-----|-----------------|------------------|
| | PPB | PPB | | | PPM | PPM |
| 01 | | | 31 | 7.9 | 0 | 182. |
| 02 | | | 32 | 7.8 | 0 | 230. |
| 03 | | | 33 | 8.0 | 0 | 106. |
| 04 | | | 34 | 7.2 | 0 | 72. |
| 05 | | | 35 | 7.2 | 0 | 74. |
| 06 | | | 36 | 7.8 | 0 | 92. |
| 07 | | | 37 | 7.7 | 0 | 86. |
| 08 | | | 38 | 7.8 | 0 | 116. |
| 09 | | | 39 | | | |
| 10 | | | 40 | | | |
| 11 | | | 41 | | | |
| 12 | | | 42 | | | |
| 13 | | | 43 | | | |
| 14 | | | 44 | | | |
| 15 | | | 45 | | | |
| 16 | | | 46 | | | |
| 17 | | | 47 | | | |
| 18 | | | 48 | | | |
| 19 | | | 49 | | | |
| 20 | | | 50 | | | |
| 21 | | | 51 | | | |
| 22 | | | 52 | | | |
| 23 | | | 53 | | | |
| 24 | | | 54 | | | |
| 25 | | | 55 | | | |
| 26 | | | 56 | | | |
| 27 | | | 57 | | | |
| 28 | | | 58 | | | |
| 29 | | | 59 | | | |
| 30 | | | 60 | | | |

METHODS: Digestion-

Sample Weight-

Determination- Cu, Mo - Colorimetric

pH - Electrometric

REMARKS:

CO₃, HCO₃ - Electrometric Titration

*Mo, Cu To be reported
at a later date.*

4361 glass bottle missing

NOTE: Mail Original to
AMAX Exploration, Inc.,
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Denver, Colorado 80226

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 - Geothermal Office At _____
 - E. J. Rowe At Denver Lab
 - S. C. Hoatson Denver Lab

LAB Amax-Denver

ANALYTICAL REPORT

DATE _____

REQ. NO. 9188 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1030

TYPE SAMPLES Geothermal Waters

REQUESTED BY John Deymonaz

| | SAMPLE | Temp. °C | Cond. | Mn ppb | | SAMPLE | | | | | |
|----|--------|-------------|-------|-----------|----|--------|--|--|--|--|--|
| 01 | W14361 | 25° | 450. | <25 | 31 | | | | | | |
| 02 | 62 | | 500. | 31. | 32 | | | | | | |
| 03 | 63 | | 354 | <25 | 33 | | | | | | |
| 04 | 64 | | 177. | <25 | 34 | | | | | | |
| 05 | 65 | | 200. | <25 | 35 | | | | | | |
| 06 | 66 | | 220. | <25 | 36 | | | | | | |
| 07 | 67 | ∇ | 183. | 30. | 37 | | | | | | |
| 08 | W14368 | 25° | 260. | 55. | 38 | | | | | | |
| 09 | | | | | 39 | | | | | | |
| 10 | | | | | 40 | | | | | | |
| 11 | | | | | 41 | | | | | | |
| 12 | | | | | 42 | | | | | | |
| 13 | | | | | 43 | | | | | | |
| 14 | | | | | 44 | | | | | | |
| 15 | | | | | 45 | | | | | | |
| 16 | | | | | 46 | | | | | | |
| 17 | | | | | 47 | | | | | | |
| 18 | | | | | 48 | | | | | | |
| 19 | | | | | 49 | | | | | | |
| 20 | | | | | 50 | | | | | | |
| 21 | | | | | 51 | | | | | | |
| 22 | | | | | 52 | | | | | | |
| 23 | | | | | 53 | | | | | | |
| 24 | | | | | 54 | | | | | | |
| 25 | | | | | 55 | | | | | | |
| 26 | | | | | 56 | | | | | | |
| 27 | | | | | 57 | | | | | | |
| 28 | | | | | 58 | | | | | | |
| 29 | | | | | 59 | | | | | | |
| 30 | | | | | 60 | | | | | | |

METHODS: Digestion-

Sample Weight-

Determination-
Wheatstone Bridge

Cond. = conductivity
in umhos/cm

REMARKS: Mn - A.A.

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ANALYTICAL REPORT

DATE 6/24/81

REQ. NO. 9188 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1030

TYPE SAMPLES GEOHERMAL WATER

REQUESTED BY John Deymonaz

| SAMPLE | Cu | Mo | SAMPLE | pH | CO ₃ | HCO ₃ |
|--------|-----|-----|--------|-----|-----------------|------------------|
| | PPB | PPB | | | PPM | PPM |
| 01 | | | 31 | 7.9 | 0 | 182. |
| 02 | | | 32 | 7.8 | 0 | 230. |
| 03 | | | 33 | 8.0 | 0 | 106. |
| 04 | | | 34 | 7.2 | 0 | 72. |
| 05 | | | 35 | 7.2 | 0 | 74. |
| 06 | | | 36 | 7.8 | 0 | 82. |
| 07 | | | 37 | 7.7 | 0 | 86. |
| 08 | | | 38 | 7.8 | 0 | 116. |
| 09 | | | 39 | | | |
| 10 | | | 40 | | | |
| 11 | | | 41 | | | |
| 12 | | | 42 | | | |
| 13 | | | 43 | | | |
| 14 | | | 44 | | | |
| 15 | | | 45 | | | |
| 16 | | | 46 | | | |
| 17 | | | 47 | | | |
| 18 | | | 48 | | | |
| 19 | | | 49 | | | |
| 20 | | | 50 | | | |
| 21 | | | 51 | | | |
| 22 | | | 52 | | | |
| 23 | | | 53 | | | |
| 24 | | | 54 | | | |
| 25 | | | 55 | | | |
| 26 | | | 56 | | | |
| 27 | | | 57 | | | |
| 28 | | | 58 | | | |
| 29 | | | 59 | | | |
| 30 | | | 60 | | | |

METHODS: Digestion- Sample Weight-
 Determination- Cu, Mo - Colorimetric
 pH - Electrometric
 REMARKS: CO₃, HCO₃ - Electrometric Titration

*Mo, Cu To be reported
 at a later date
 114361 glass bottle missing*

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ANALYTICAL REPORT

DATE _____

REQ. NO. 9188 JOB NO. _____

ANALYST S. Hoatson

PROJECT 1030

TYPE SAMPLES Geothermal Waters

REQUESTED BY John Deymonaz

| | SAMPLE | Temp. °C | Cond. | Mn ppb | | SAMPLE | | | | | |
|----|---------------|-------------|-------------|---------------|----|--------|--|--|--|--|--|
| 01 | <u>W14361</u> | <u>25°</u> | <u>450.</u> | <u><25</u> | 31 | | | | | | |
| 02 | <u>62</u> | ↓ | <u>500.</u> | <u>31.</u> | 32 | | | | | | |
| 03 | <u>63</u> | | <u>354.</u> | <u><25</u> | 33 | | | | | | |
| 04 | <u>64</u> | | <u>177.</u> | <u><25</u> | 34 | | | | | | |
| 05 | <u>65</u> | | <u>200.</u> | <u><25</u> | 35 | | | | | | |
| 06 | <u>66</u> | | <u>220.</u> | <u><25</u> | 36 | | | | | | |
| 07 | <u>67</u> | ↓ | <u>183.</u> | <u>30.</u> | 37 | | | | | | |
| 08 | <u>W14368</u> | <u>25°</u> | <u>260.</u> | <u>55.</u> | 38 | | | | | | |
| 09 | | | | | 39 | | | | | | |
| 10 | | | | | 40 | | | | | | |
| 11 | | | | | 41 | | | | | | |
| 12 | | | | | 42 | | | | | | |
| 13 | | | | | 43 | | | | | | |
| 14 | | | | | 44 | | | | | | |
| 15 | | | | | 45 | | | | | | |
| 16 | | | | | 46 | | | | | | |
| 17 | | | | | 47 | | | | | | |
| 18 | | | | | 48 | | | | | | |
| 19 | | | | | 49 | | | | | | |
| 20 | | | | | 50 | | | | | | |
| 21 | | | | | 51 | | | | | | |
| 22 | | | | | 52 | | | | | | |
| 23 | | | | | 53 | | | | | | |
| 24 | | | | | 54 | | | | | | |
| 25 | | | | | 55 | | | | | | |
| 26 | | | | | 56 | | | | | | |
| 27 | | | | | 57 | | | | | | |
| 28 | | | | | 58 | | | | | | |
| 29 | | | | | 59 | | | | | | |
| 30 | | | | | 60 | | | | | | |

METHODS: Digestion-

Sample Weight-

Determination-

Cond. = conductivity
in umhos/cm

Wheatstone Bridge

REMARKS:

Mn - A.A.

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LAB Amex-Denver

ANALYTICAL REPORT

DATE 12/30/81

REQ. NO. 9188 JOB NO. _____

ANALYST P.P

PROJECT 1030

TYPE SAMPLES Geothermal

REQUESTED BY John Deymonaz

| | SAMPLE | PPb Cu | PPb Mo | | | | SAMPLE | | | | | | |
|----|---------------|--------------|--------------|--|--|--|-----------|--|--|--|--|--|--|
| 01 | <u>W14361</u> | <u><2</u> | <u>5</u> | | | | <u>31</u> | | | | | | |
| 02 | <u>62</u> | <u><2</u> | <u>7</u> | | | | <u>32</u> | | | | | | |
| 03 | <u>63</u> | <u><2</u> | <u>3</u> | | | | <u>33</u> | | | | | | |
| 04 | <u>64</u> | <u><2</u> | <u><2</u> | | | | <u>34</u> | | | | | | |
| 05 | <u>65</u> | <u><2</u> | <u><2</u> | | | | <u>35</u> | | | | | | |
| 06 | <u>66</u> | <u><2</u> | <u><2</u> | | | | <u>36</u> | | | | | | |
| 07 | <u>67</u> | <u><2</u> | <u>3</u> | | | | <u>37</u> | | | | | | |
| 08 | <u>68</u> | <u><2</u> | <u>5</u> | | | | <u>38</u> | | | | | | |
| 09 | | | | | | | <u>39</u> | | | | | | |
| 10 | | | | | | | <u>40</u> | | | | | | |
| 11 | | | | | | | <u>41</u> | | | | | | |
| 12 | | | | | | | <u>42</u> | | | | | | |
| 13 | | | | | | | <u>43</u> | | | | | | |
| 14 | | | | | | | <u>44</u> | | | | | | |
| 15 | | | | | | | <u>45</u> | | | | | | |
| 16 | | | | | | | <u>46</u> | | | | | | |
| 17 | | | | | | | <u>47</u> | | | | | | |
| 18 | | | | | | | <u>48</u> | | | | | | |
| 19 | | | | | | | <u>49</u> | | | | | | |
| 20 | | | | | | | <u>50</u> | | | | | | |
| 21 | | | | | | | <u>51</u> | | | | | | |
| 22 | | | | | | | <u>52</u> | | | | | | |
| 23 | | | | | | | <u>53</u> | | | | | | |
| 24 | | | | | | | <u>54</u> | | | | | | |
| 25 | | | | | | | <u>55</u> | | | | | | |
| 26 | | | | | | | <u>56</u> | | | | | | |
| 27 | | | | | | | <u>57</u> | | | | | | |
| 28 | | | | | | | <u>58</u> | | | | | | |
| 29 | | | | | | | <u>59</u> | | | | | | |
| 30 | | | | | | | <u>60</u> | | | | | | |

METHODS: Digestion- Sample Weight-

Determination- Colorimetric

REMARKS:

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LAB Amex-Denver

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DATE 12/30/81

REQ. NO. 9188 JOB NO. _____

ANALYST P.P

PROJECT 1030

TYPE SAMPLES Geothermal

REQUESTED BY John Deymonaz

| | SAMPLE | PPb Cu | PPb Mo | | | | SAMPLE | | | | | | |
|----|---------------|--------------|--------------|--|--|--|-----------|--|--|--|--|--|--|
| 01 | <u>W14361</u> | <u><2</u> | <u>5</u> | | | | <u>31</u> | | | | | | |
| 02 | <u>62</u> | <u><2</u> | <u>7</u> | | | | <u>32</u> | | | | | | |
| 03 | <u>63</u> | <u><2</u> | <u>3</u> | | | | <u>33</u> | | | | | | |
| 04 | <u>64</u> | <u><2</u> | <u><2</u> | | | | <u>34</u> | | | | | | |
| 05 | <u>65</u> | <u><2</u> | <u><2</u> | | | | <u>35</u> | | | | | | |
| 06 | <u>66</u> | <u><2</u> | <u><2</u> | | | | <u>36</u> | | | | | | |
| 07 | <u>67</u> | <u><2</u> | <u>3</u> | | | | <u>37</u> | | | | | | |
| 08 | <u>68</u> | <u><2</u> | <u>5</u> | | | | <u>38</u> | | | | | | |
| 09 | | | | | | | <u>39</u> | | | | | | |
| 10 | | | | | | | <u>40</u> | | | | | | |
| 11 | | | | | | | <u>41</u> | | | | | | |
| 12 | | | | | | | <u>42</u> | | | | | | |
| 13 | | | | | | | <u>43</u> | | | | | | |
| 14 | | | | | | | <u>44</u> | | | | | | |
| 15 | | | | | | | <u>45</u> | | | | | | |
| 16 | | | | | | | <u>46</u> | | | | | | |
| 17 | | | | | | | <u>47</u> | | | | | | |
| 18 | | | | | | | <u>48</u> | | | | | | |
| 19 | | | | | | | <u>49</u> | | | | | | |
| 20 | | | | | | | <u>50</u> | | | | | | |
| 21 | | | | | | | <u>51</u> | | | | | | |
| 22 | | | | | | | <u>52</u> | | | | | | |
| 23 | | | | | | | <u>53</u> | | | | | | |
| 24 | | | | | | | <u>54</u> | | | | | | |
| 25 | | | | | | | <u>55</u> | | | | | | |
| 26 | | | | | | | <u>56</u> | | | | | | |
| 27 | | | | | | | <u>57</u> | | | | | | |
| 28 | | | | | | | <u>58</u> | | | | | | |
| 29 | | | | | | | <u>59</u> | | | | | | |
| 30 | | | | | | | <u>60</u> | | | | | | |

METHODS: Digestion- Sample Weight-

Determination- Colorimetric

REMARKS:

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