**Anadarko Petroleum Corporation**  
**Geothermal Drilling Report**

### PROPRIETARY DATA

**WELL NAME:** Pueblo Valley Federal 25-22A  
**DATE:** 09/22/93  
**CONTRACTOR:** Tonto Drilling Services  
**RIG #:** 002

<table>
<thead>
<tr>
<th>REPORT NO.</th>
<th>1</th>
<th>RIG DAYS:</th>
<th>1</th>
<th>DRILD. DAYS:</th>
</tr>
</thead>
</table>

**DEPTH @ 0700:**  
**HOURS: DRILD:**  
| TRPD | REPAIR | OTHER | 12 |

**SUPERVISOR:** J.H. Moss  
**FOREMAN:** R. Fierbach

**MUD**  
**WT:**  
**YP:**  
**PV:**  
**VIS:**  
**GELS:**  
**SND%:**  
**SOL%:**  
**pH:**  
**CHL:**  
**LCM:**  
**#/BBL:**

**FORMATION DRILD:**

**LOST--CIRCULATION AND FLUID ENTRY ZONES:**

**TEMPERATURES, °F (MUD--IN, MUD--OUT, BOTTOMHOLE)**

<table>
<thead>
<tr>
<th>DEPTH IN</th>
<th>OUT</th>
<th>BH</th>
<th>DEPTH IN</th>
<th>OUT</th>
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**MECHANICAL**

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<th>SPM</th>
<th>GPM</th>
<th>PSI</th>
<th>TOTAL GPM</th>
<th>NOZ. VEL.</th>
<th>ANN. VEL.</th>
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**DRILG ASSY:**

**STRING WT:**  
**PICKUP WT:**  
**TORQUE:**

### CASING

| 8-5/8" | CND: | 35' |
| 6-5/8" | CSG: | 304' |
| 4-1/2" | CSG: | 1,089' |

**DATUM:** GL | KBI x 1

**KB = GL + 8’**

**REMARKS FOR 24 HOURS ENDING AT 0700**

Move in Tonto Drilling Services, rig #002.  
Unloaded trucks with H & H Rental Tool Co. stinger crane.
Anadarko Petroleum Corporation
Geothermal Drilling Report

PROPRIETARY DATA

WELL NAME: Pueblo Valley Federal 25-22A       DATE: 09/23/93
CONTRACTOR: Tonto Drilling Services

REPORT NO.: 2       RIG DAYS: 2       DRLD. DAYS: 

DEPTH @ 0700:       FT: ROCKBIT       CORE: 

HOURS: DRLD       TRPD       REPAIR       OTHER 12

SUPERVISOR: J.H. Moss       FOREMAN: R. Fierbach

CASING

8-5/8" CND: 35'     6-5/8" CSG: 304'     4-1/2" CSG: 1,089'

DATUM: GL + 8'  KB = GL + 8'

MUD

WT:       VIS:       W.L.:       CK:       pH:       CHL:
YP:       PV:       GELS:       SND%       SOL%       LCM:       #/BBL:

FORMATION DRLD:

LOST–CIRCULATION AND FLUID ENTRY ZONES:

____________________

____________________

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TEMPERATURES, °F (MUD–IN, MUD–OUT, BOTTOMHOLE)

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>IN</th>
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MECHANICAL

BIT #       SIZE       MAKE       TYPE       SER. NO.       JETS       IN | OUT | FT | HRS | WT | RPM | COND
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PUMP       LINER       STROKE       SPM | GPM | PSI | TOTAL GPM | NOZ. VEL. | ANN. VEL.
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</tbody>
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DRLG ASSY:  ____________________________

STRING WT: ____________________________  PICKUP WT: ____________________________  TORQUE: ____________________________

REMARKS FOR 24 HOURS ENDING AT 0700
Rigging up. Installed safety fence around location.
Anadarko Petroleum Corporation
Geothermal Drilling Report

PROPRIETARY DATA

WELL NAME: Pueblo Valley Federal 25-22A  DATE: 09/29/93
CONTRACTOR: Tonto Drilling Services  RIG #: 002
REPORT NO.: 8  RIG DAYS: 8  DRLD. DAYS: 5
DEPTH @ 0700: 1,880  FT. ROCKBIT:  CORE 131
HOURS: DRLD 15.5  TRPD  REPAIR  OTHER 8.5
SUPERVISOR: J.H. Moss  FOREMAN: R. Fierbach
DRILLERS: G. Behunin, C. McKracken

CASING

8-5/8' CND: 35'
6-5/8' CSG: 304'
4-1/2' CSG: 1,089'

DATUM: GL [1] KB [x 1]
KB = GL + 8'

MUD

WT: 8.7  VIS: 45  W.L.: 19.2  CK: 2/32  pH: 8.5  CHL: 400
YP: 12  PV: 6  GEL: 3/9  SND% tr  SOL% 5

FORMATION DRLD: Silicic tufts: 1,749' - 1,751'; Rhyolitic tuft: 1,756' - 1,781'; Rhyolitic tuft bx: 1,781' - 1,810'; Rhyolitic tuft: 1,810' - 1,880'. Open fracs: 1,742'; 1,747'; 1,849' - 1,851'; 1,858'.

LOST-CIRCULATION AND FLUID ENTRY ZONES:

TEMPERATURES, °F (MUD-IN, MUD-OUT, BOTTOMHOLE)

<table>
<thead>
<tr>
<th>DEPTH</th>
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<th>OUT</th>
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<td>69</td>
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<td>1,800</td>
<td>69</td>
<td>-</td>
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<td>1,835</td>
<td>73</td>
<td>-</td>
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<tr>
<td>1,880</td>
<td>67</td>
<td>-</td>
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MECHANICAL

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<tr>
<th>BIT #</th>
<th>SIZE</th>
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<th>TYPE</th>
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<th>JETS</th>
<th>IN</th>
<th>OUT</th>
<th>FT</th>
<th>HRS</th>
<th>WT</th>
<th>RPM</th>
<th>COND</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>3.782</td>
<td>Core</td>
<td>L 21932</td>
<td>-</td>
<td>1,616</td>
<td>264</td>
<td>38.5</td>
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PUMP  LINER  STROKE  SPM  GPM  PSI  TOTAL GPM  NOZ. VEL.  ANN. VEL.

DRILG ASSY: 10' core barrel.

STRING WT:  PICKUP WT:  TORQUE:

REMARKS FOR 24 HOURS ENDING AT 0700
Diamond cored from 1,749' to 1,880' with no mud returns to surface. Well attempted to flow while recovering core from 1,818' to 1,828'. Pumped mud during core recovery.

CO₂: 160 - 1,300 ppm. H₂S: 0 ppm.
Anadarko Petroleum Corporation  
Geothermal Drilling Report

### PROPRIETARY DATA

<table>
<thead>
<tr>
<th>WELL NAME</th>
<th>Pueblo Valley Federal 25-22A</th>
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<tbody>
<tr>
<td>CONTRACTOR</td>
<td>Tonto Drilling Services</td>
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<tr>
<td>REPORT NO.</td>
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<tr>
<td>DEPTH @ 0700</td>
<td>1,990 FT</td>
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<td>HOURS: DRLD</td>
<td>17</td>
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<td>SUPERVISOR</td>
<td>J.H. Moss</td>
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<td>DRILLERS</td>
<td>G. Behunin, C. McKracken</td>
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### CASING

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<th>SIZE</th>
<th>CNL</th>
<th>MTD</th>
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<td>8-5/8&quot;</td>
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<tr>
<td>6-5/8&quot;</td>
<td>30'</td>
<td></td>
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<tr>
<td>4-1/2&quot;</td>
<td>1'</td>
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</table>

### MUD

- WT: 8.7
- VIS: 44
- YP: 12
- PV: 5
- GELS: 3/8
- W.L.: 18.8
- CK: 2/32
- pH: 8.5
- CHL: 400

### FORMATION DRLD:
Rhyolite ash tuff: 1,880' - 1,990'; hard, partially welded. Breccia zones: 1,897' - 1,901'; 1,921' - 1,925'; 1,935' - 1,941'. Larger silica-lined fracs/cav's: 1,903', 1,924' (Bcm).

### LOST-CIRCULATION AND FLUID ENTRY ZONES:

### TEMPERATURES, °F (MUD-IN, MUD-OUT, BOTTOMHOLE)

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>IN</th>
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<th>BH</th>
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<td>1,990</td>
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<th>IN</th>
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<th>FT</th>
<th>HRS</th>
<th>WT</th>
<th>RPM</th>
<th>COND</th>
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<td>L.21932</td>
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<td>55.5</td>
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### PUMP

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<th>LINER</th>
<th>STROKE</th>
<th>GPM</th>
<th>GPM</th>
<th>PSI</th>
<th>TOTAL GPM</th>
<th>NOZ. VEL.</th>
<th>ANN. VEL.</th>
</tr>
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</table>

### DRLG ASSY:
10' core barrel.

### STRING WT:

### PICKUP WT:

### TORQUE:

### REMARKS FOR 24 HOURS ENDING AT 0700
Diamond cored from 1,880' to 1,990'. No mud returns to surface. Well not trying to flow. Pumped mud during core recovery.

- CO\(_2\): 120 - 6,900 ppm. H\(_2\)S: 0 ppm.
Anadarko Petroleum Corporation  
Geothermal Drilling Report

PROPRIETARY DATA

WELL NAME: Pueblo Valley Federal 25-22A  
DATE: 10/01/93

CONTRACTOR: Tonto Drilling Services  
RIG #: 002

REPORT NO.: 10  
RIG DAYS: 10  
DRLD. DAYS: 7

DEPTH @ 0700: 2,073'  
FT: ROCKBIT  
CORE: 83

HOURS: DRLD 13  
TRPD 5  
REPAIR 1  
OTHER 5

SUPERVISOR: J.H. Moss  
FOREMAN: R. Fierbach

DRILLERS: G. Behunin, C. M. McKracken

CASING

8-5/8'  
COND: 35'
6-5/8'  
CSG: 304'
4-1/2'  
CSG: 1,089'

DATUM: GL 1  
KB(x)

MUD

WT: 8.7 - 9.8  
YP: 13  
PV: 7  
GELS: 3/8  
SND% tr  
SOL% 5  
LQM: 0

VIS: 45  
W.L.: 16.8  
CK: 2  
PH: 8.5  
CHL: 400

FORMATION DRLD: Rhyolite ash tuff. Partially open fracs: 2,046' - 2,053'. Less frac'd than above.

LOST-CIRCULATION AND FLUID ENTRY ZONES:

TEMPERATURES, °F (MUD-IN, MUD-OUT, BOTTOMHOLE)

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<td>1,616</td>
<td>2,046</td>
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<td>2,000</td>
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<th>FT</th>
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<tr>
<td>2</td>
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<td>Core</td>
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<td>–</td>
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<td>2,046</td>
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<td>6.25</td>
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PUMP  
LINER  
STROKE  
SPM  
GPM  
PSI  
TOTAL GPM  
NOZ. VEL.  
ANN. VEL.

DRLG ASSY: 10' core barrel.

STRING WT:  
PICKUP WT:  
TORQUE:  

REMARKS FOR 24 HOURS ENDING AT 0700

Diamond cored from 1,990' to 2,046'. Trip for new bit. Diamond cored from 2,046 to 2,073' with no returns to surface. Pumping mud during core recovery.

CO₂: 110 – 1,530 ppm. H₂S: 0 ppm.
Anadarko Petroleum Corporation
Geothermal Drilling Report

PROPRIETARY DATA

WELL NAME: Pueblo Valley Federal 25–22A       DATE: 10/02/93
CONTRACTOR: Tonto Drilling Services       RIG #: 002
REPORT NO.: 11       RIG DAYS: 11       DRLD. DAYS: 8
DEPTH @ 0700: 2,173       FT: ROCK BIT: CORE 100
HOURS: DRLD       TRPD 0       REPAIR 1.5       OTHER 7.5
SUPERVISOR: J.H. Moss       FOREMAN: R. Fierbach
DRILLERS: G. Behunin, C. McKracken

Casing

8–5/8"       CND: 35°
6–5/8"       CSG: 304'
4–1/2"       CSG: 1,089'

DATUM: GL 1       KB (x1)

MUD

WT: 8.7       VIB: 44       W.L.: 13.6       CK: 2/32       pH: 8.5       CHL: 400
YP: 12       PY: 8       GELS: 3/9       SND%       SOL% 6       LCM: #/BBL:

FORMATION DRLD: Rhyolite ash tuff. Open fracs: 2,071'; 2,076'; 2,092' – 2,096'; 2,114' – 2,117'; 2,125'; 2,133'; 2,135' – 2,139'; 2,148' – 2,163'. BX zones: 2,092' – 2,096'; 2,148' – 2,163'.

LOST–CIRCULATION AND FLUID ENTRY ZONES:

TEMPERATURES, °F (MUD–IN, MUD–OUT, BOTTOMHOLE)

<table>
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<tr>
<th>DEPTH (FT)</th>
<th>MUD–IN</th>
<th>MUD–OUT</th>
<th>BOTTOMHOLE</th>
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<td>2,100</td>
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<td>2,144</td>
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MECHANICAL

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<th>SER. NO.</th>
<th>JETS</th>
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<td>127</td>
<td>21.25</td>
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</tr>
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</table>

PUMP

STERNO

STROKE

SPM

GPM

PSI

TOTAL GPM

NOZ. VEL

ANN. VEL

DRLG ASSY: 10' core barrel.

STRING WT:

PICKUP WT:

TORQUE:

REMARKS FOR 24 HOURS ENDING AT 0700
Diamond cored from 2,073' to 2,173' with no returns to surface. Well attempted to flow while recovering core at 2,144'. Pumped mud during core recovery.

CO₂: 230 – 1,250 ppm. H₂S: 0 ppm.
Anadarko Petroleum Corporation
Geothermal Drilling Report

PROPRIETARY DATA

WELL NAME: Pueblo Valley Federal 25–22A
CONTRACTOR: Tonto Drilling Services
REPORT NO.: 12
DEPTH @ 0700: 2,273
HOURS: DRLD 16
SUPERVISOR: J.H. Moss
DRILLERS: G. Behunin, C. McKracken

DATE: 10/03/93
RIG #: 002
DRLD. DAYS: 9
FT: ROCKBIT
CORE: 100
TRP: REPAIR
OTHER: 8

CASING

8–5/8" CND: 35°
6–5/8" CSG: 304°
4–1/2” CSG: 1,089°

DATUM: GLL 1
KB = GL + 8°

MUD

WT: 8.7
YP: 10
VIS: 4.2
PV: 8
W.L.: 13.2
GELS: 3/8
OK: 2/32
SND% tr
SOL% 6
LCM: 0
CHL: 400

FORMATION DRLD: Rhyolite ash tuff. Open frac: 2,174' – 2,177'; 2,179'; 2,181'; 2,185’ – 2,189'; 2,195'; 2,201' – 2,215'; 2,219' – 2,221'; 2,259'. BX zones: 2,174' – 2,177'; 2,185' – 2,189'; 2,201' – 2,213'; 2,219' – 2,227'; 2,259'.

LOST–CIRCULATION AND FLUID ENTRY ZONES:

TEMPERATURES, °F (MUD—IN, MUD—OUT, BOTTOMHOLE)

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>IN</th>
<th>OUT</th>
<th>BH</th>
<th>DEPTH</th>
<th>IN</th>
<th>OUT</th>
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<td>67</td>
<td>–</td>
<td></td>
<td>2,200</td>
<td>66</td>
<td>–</td>
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<tr>
<td>2,250</td>
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<td>–</td>
<td></td>
<td>2,273</td>
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MECHANICAL

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<th>SIZE</th>
<th>MAKE</th>
<th>TYPE</th>
<th>SER. NO.</th>
<th>JETS</th>
<th>IN</th>
<th>OUT</th>
<th>FT</th>
<th>HRS</th>
<th>WT</th>
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PUMP
LINER
STROKE
SPM
GPM
PSI
TOTAL GPM
NOZ. VEL.
ANN. VEL.

DRLG ASSY: 10' core barrel.

STRING WT: ___________ PICKUP WT: ___________ TORQUE: ___________

REMARKS FOR 24 HOURS ENDING AT 0700
Diamond cored from 2,173' to 2,273' with no returns to surface. Well attempted to flow through the annulus, at 2,253'. Pumped mud during core recovery.

CO₂: 200 – 1,360 ppm. H₂S: 0 ppm.
Anadarko Petroleum Corporation
Geothermal Drilling Report

PROPRIETARY DATA

WELL NAME: Pueblo Valley Federal 25–22A  DATE: 10/04/93
CONTRACTOR: Tonto Drilling Services  RIG #: 002
REPORT NO.: 13  RIG DAYS: 13  DRLD. DAYS: 10
DEPTH @ 0700: 2,373  FT: ROCKBIT  CORE 100
HOURS: DRLD 15  TRPD 15  REPAIR 9  OTHER 
SUPERVISOR: J.H. Moss  FOREMAN: Mike LaOrange
DRILLERS: G. Behunin, C. McKracken

CASYNG

8–5/8"  CND: 36'
6–5/8"  CSG: 304'
4–1/2"  CSG: 1,089'

DATUM: GLI 1  KB1 X 1  KB = GL + 8'

MUD

WT: 8.7  VIS: 47  W.L.: 11.6  CK: 2/32  pH: 8.5  CHL: 400
YP: 14  PV: 10  GELS: 4/10  SND%  SOL%  6  LCM: 0  #/BBL:

FORMATION DRLD: Ryolite ash tuff: 2,273′ – 2,362′. Ryolite lapilli tuff: 2,362′ – 2,373′.
Open fracs: 2,274′ – 2,275′; 2,283′ – 2,286′; 2,322′ – 2,324′. EX zones: 2,277′; 2,283′; 2,288′; 2,319′ – 2,324′; 2,325′ – 2,329′; 2,334′ – 2,337′; 2,342′ – 2,344′.

LOST-CIRCULATION AND FLUID ENTRY ZONES:

TEMPERATURES, °F (MUD-IN, MUD-OUT, BOTTOMHOLE)

MECHANICAL

BIT #: 3  SIZE: 3.830  MAKE: Core  TYPE: H31732  SER. NO: –
JETS: 2,046  IN: 327  OUT: 52.25

PUMP  LINER  STROKE  SPM  GPM  PSI  TOTAL GPM  NOZ. VEL.  ANN. VEL.

DRLG ASSY: 10′ core barrel.

STRING WT:  TORQUE:

REMARKS FOR 24 HOURS ENDING AT 0700
Diamond cored from 2,273′ to 2,373′ with no mud returns to surface.
Drill rods vibrating from 2,283′ to 2,290′. Pumped mud down annulus to eliminate problem.
Pumped mud during core recovery.

CO₂: 250 – 1,540 ppm. H₂S: 0 ppm.
Anadarko Petroleum Corporation  
Geothermal Drilling Report

PROPRIETARY DATA

WELL NAME: Pueblo Valley Federal 25-22A  
DATE: 10/05/93
CONTRACTOR: Tonto Drilling Services  
RIG #: 002
REPORT NO.: 14  
RIG DAYS: 14  
DRLD. DAYS: 11
DEPTH @ 0700: 2,460  
FT. ROCKBIT: 87  
CORE: 87
HOURS: DRLD: 15  
TRPD:  
REPAIR:  
OTHER: 9
SUPERVISOR: J.H. Moss  
FOREMAN: Mike LeOrange
DRILLERS: G. Behunin, C. McKracken

CASING

8-5/8" CND: 35'
6-5/8" CSG: 304'
4-1/2" CSG: 1,089'

DATUM: GLI 1  
KB [x 1]

MUD

WT: 8.7  
VIS: 45  
W.L.: 12  
CK: 2/32  
pH: 8.5  
CHL: 400
YP: 14  
PV: 8  
GELS: 3/10  
SND%:  
TR:  
SOL%: 6  
LCM: 0  
# / BBL: 


LOST-CIRCULATION AND FLUID ENTRY ZONES: Fluid entry @ 2,450'.

TEMPERATURES, °F (MUD-IN, MUD-OUT, BOTTOMHOLE)

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>IN</th>
<th>OUT</th>
<th>BH</th>
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<tbody>
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<td>-</td>
<td>-</td>
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<tr>
<td>2,400</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>2,450</td>
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<td>-</td>
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<td>66</td>
<td>-</td>
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MECHANICAL

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<th>TYPE</th>
<th>SER. NO.</th>
<th>JETS</th>
<th>IN</th>
<th>OUT</th>
<th>FT</th>
<th>HRS</th>
<th>WT</th>
<th>RPM</th>
<th>COND</th>
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<tbody>
<tr>
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<td>Core</td>
<td>H 831732</td>
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<table>
<thead>
<tr>
<th>PUMP</th>
<th>LINER</th>
<th>STROKE</th>
<th>SPM</th>
<th>GPM</th>
<th>PSI</th>
<th>TOTAL GPM</th>
<th>NOZ. VEL.</th>
<th>ANN. VEL.</th>
</tr>
</thead>
</table>

DRLG ASSY: 10' core barrel.

STRING WT:  
PICKUP WT:  
TORQUE:  

REMARKS FOR 24 HOURS ENDING AT 0700
Diamond cored from 2,373' to 2,460' with no mud returns to surface.  
Well attempted to flow through annulus at 2,450'. Pumped mud during core recovery.

CO₂: 800 - 1,600 ppm.  
H₂S: 0 ppm.
Anadarko Petroleum Corporation
Geothermal Drilling Report

PROPRIETARY DATA

WELL NAME: Pueblo Valley Federal 25–22A       DATE: 10/06/93
CONTRACTOR: Tonto Drilling Services       RIG #: 002
REPORT NO.: 15       RIG DAYS: 15       DRLD. DAYS: 12
DEPTH @ 0700: 2,500 (GL) FT: ROCKBIT CORE 48
HOURS: DRLD 5.75     TRPD 9.5     REPAIR 8.75     OTHER 8.75
SUPERVISOR: J.H. Moss     FOREMAN: Mike LaOrange
DRILLERS: G. Behunin, C. McKracken

CASING
8-5/8" CND: 35°
6-5/8" CSG: 304'
4-1/2" CSG: 1,089'

DATUM: GL 1       KB (x)

MUD
WT: 8.7 – 9.8     VIS: 43     W.L.: 13.2     CK: 2/32     pH: 8.5     CHL: 400
YP: 12     PV: 8     GELS: 2–8     SND% TR SOL% 6
LCM: 0 #/BBL:

FORMATION DRLD: Basalt Bx: 2,460’ – 2,475’. Basalt: 2,475’ – 2,508’.
Silica lined cavs: 2,450’ – 2,454’; 2,466’ – 2,471’.

LOST–CIRCULATION AND FLUID ENTRY ZONES:

TEMPERATURES, °F (MUD–IN, MUD–OUT, BOTTOMHOLE)

<table>
<thead>
<tr>
<th>DEPTH</th>
<th>IN</th>
<th>OUT</th>
<th>BH</th>
<th>DEPTH</th>
<th>IN</th>
<th>OUT</th>
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<td>2,508</td>
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</table>

After trip for new bit.

MECHANICAL

<table>
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<tr>
<th>BIT #</th>
<th>SIZE</th>
<th>MAKE</th>
<th>TYPE</th>
<th>SER. NO.</th>
<th>JETS</th>
<th>IN</th>
<th>OUT</th>
<th>FT</th>
<th>HRS</th>
<th>WT</th>
<th>RPM</th>
<th>COND</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3.830</td>
<td>Core</td>
<td>H 831732</td>
<td>2,046</td>
<td>2,471</td>
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<td>4</td>
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<td>Core</td>
<td>H 253–3</td>
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<td>6</td>
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</tbody>
</table>

PUMP  LINER  STROKE  GPM  GPM  PSI  TOTAL GPM  NOZ. VEL.  ANN. VEL.

DRLG ASSY: 10' core barrel.

STRING WT: PICKUP WT: TORQUE:

REMARKS FOR 24 HOURS ENDING AT 0700
Diamond cored from 2,460' to 2,471' with no mud returns to surface. Trip for new bit.
Diamond cored from 2,471' to 2,508' with no mud returns to surface. Pulled out of hole laying drill rods down.
Closed master valve. Rigging Down.
Pumped mud during trips and core recovery.

CO₂: 890 – 1,400 ppm  H₂S: 0 ppm.
**PROPRIETARY DATA**

**WELL NAME:** Pueblo Valley Federal 25-22A  
**CONTRACTOR:** Tonto Drilling Services  
**REPORT NO.:** 16  
**DEPT @ 0700:**  
**HOURS: DRLD:**  
**SUPERVISOR:** J.H. Moss  
**DRILLERS:** G. Behunin, C. McKracken  
**DATE:** 10/07/93  
**RIG #:** 002  
**RIG DAYS:** 15  
**DRLD. DAYS:** 12  
**FT: ROCKBIT**  
**CORE**  
**TRPD**  
**REPAIR**  
**OTHER**  

**CASING**

<table>
<thead>
<tr>
<th>Size</th>
<th>CND</th>
<th></th>
<th>Size</th>
<th>CSG</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8-5/8&quot;</td>
<td>35°</td>
<td></td>
<td>6-5/8&quot;</td>
<td>304°</td>
<td></td>
</tr>
<tr>
<td>4-1/2&quot;</td>
<td>1,089°</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

**DATUM:** GL ± 8'  
**KB = GL + 8'**

**MUD**

<table>
<thead>
<tr>
<th>WT</th>
<th>VIS</th>
<th>W.L</th>
<th>CK</th>
<th>pH</th>
<th>CHL</th>
</tr>
</thead>
</table>

**FORMATION DRLD:**

**LOST-CIRCULATION AND FLUID ENTRY ZONES:**

**TEMPERATURES, °F (MUD—IN, MUD—OUT, BOTTOMHOLE)**

<table>
<thead>
<tr>
<th>Depth</th>
<th>In</th>
<th>Out</th>
<th>BH</th>
<th>Depth</th>
<th>In</th>
<th>Out</th>
<th>BH</th>
<th>Depth</th>
<th>In</th>
<th>Out</th>
<th>BH</th>
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**MECHANICAL**

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<th>BIT #</th>
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<th>SER. NO.</th>
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<th>FT</th>
<th>HRS</th>
<th>WT</th>
<th>RPM</th>
<th>COND</th>
</tr>
</thead>
</table>

**PUMP**

**LINER**

**STROKE**

**SPM**

**GPM**

**PSI**

**TOTAL GPM**

**NOZ. VEL.**

**ANN. VEL.**

**DRLG ASSY:**

**STRING WT:**

**PICKUP WT:**

**TORQUE:**

**REMARKS FOR 24 HOURS ENDING AT 0700**

Rig—down and move out.

**FINAL REPORT**