

Operator Name Amoco Production Company Lease Name Wisherd G.U. Well # 3 HI

Sec. 35 Twp. 25S Rge. 38 X East West County Kearny

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes X No
 Samples Sent to Geological Survey X Yes No
 Cores Taken Yes X No

Formation Description
X Log Sample

| | | |
|-----------------|------|------|
| Sand | 0 | 339 |
| Sand, Redbed | 339 | 697 |
| Redbed | 697 | 886 |
| Sand, Shale | 886 | 1481 |
| Anhydrite, Sand | 1481 | 1668 |
| Sand, Clay | 1668 | 2235 |
| Lime, Shale | 2235 | 3092 |

| Name | Top | Bottom |
|------------|------|--------|
| Chase | 2353 | + 796 |
| Herrington | 2396 | + 753 |
| Krider | 2405 | + 744 |
| Winfield | 2445 | + 704 |
| Towanda | 2513 | + 636 |
| Ft. Riley | 2562 | + 587 |

CASING RECORD X New Used

Report all strings set-conductor, surface, intermediate, production, etc.

| Purpose of String | Size Hole Drilled | Size Casing Set (in O.D.) | Weight Lbs/Ft. | Setting Depth | Type of Cement | #Sacks Used | Type And Percent Additives |
|-------------------|-------------------|---------------------------|----------------|---------------|----------------|-------------|----------------------------|
| Surface | 12-1/4" | 8-5/8" | 839 | DS Lite | 2% CC | 250 | 2% CC |
| | | | | Class C | 2% CC | 150 | 2% CC |
| Production | 7-7/8" | 5-1/2" | 3091 | 65-35 POZ | D59 Flcc 4% | 425 | D59 Flac 4% |
| | | | | Class C | D59 Flcc 4% | 310 | D59 Flac 4% |

PERFORATION RECORD

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Shots Per Foot | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) | Depth |
|----------------|---|------------------------------------|-----------|
| 4 | 2394 - 2420 2657 - 2666 | 131,082 gallons of water | |
| 4 | 2450 - 2480 | | 2394-2666 |
| 4 | 2514 - 2544 | 991,000 lbs of 8-16 Sn | |
| 4 | 2562 - 2602 | | |
| 4 | 2618 - 2624 | | |

| | | | | |
|---------------|--------------------|--------------------|-----------|--------------------------------------|
| TUBING RECORD | Size <u>2-3/8"</u> | Set At <u>2634</u> | Packer at | Liner Run <u> </u> Yes <u>X</u> No |
|---------------|--------------------|--------------------|-----------|--------------------------------------|

| | |
|--|---|
| Date of First Production <u>5/3/88</u> | Producing Method <u>X</u> Flowing <u> </u> Pumping <u> </u> Gas Lift <u> </u> Other (explain) |
|--|---|

| Estimated Production Per 24 Hours | Oil Bbls | Gas MCF | Water Bbls | Gas-Oil Ratio | Gravity |
|-----------------------------------|----------|---------|------------|---------------|---------|
| | | 597 | | | |

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole X Perforation
X Sold Other (specify) _____
 Used on Lease Dually Completed
 Commingled

2394 - 2666

SIDE TWO

Operator Name Amoco Production Company Lease Name Wisherd G.U. Well # 3 HI

Sec. 35 Twp. 25S Rge. 38 East West County Kearny

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

| | | |
|-----------------------------------|---|--|
| Drill Stem Tests Taken | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Samples Sent to Geological Survey | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Cores Taken | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

| | | |
|-----------------|------|------|
| Sand | 0 | 339 |
| Sand, Redbed | 339 | 697 |
| Redbed | 697 | 886 |
| Sand, Shale | 886 | 1481 |
| Anhydrite, Sand | 1481 | 1668 |
| Sand, Clay | 1668 | 2235 |
| Lime, Shale | 2235 | 3092 |

| | | |
|---|---------------------------------|--------|
| Formation Description | | |
| <input checked="" type="checkbox"/> Log | <input type="checkbox"/> Sample | |
| Name | Top | Bottom |
| Chase | 2353 | + 796 |
| Herrington | 2396 | + 753 |
| Krider | 2405 | + 744 |
| Winfield | 2445 | + 704 |
| Towanda | 2513 | + 636 |
| Ft. Riley | 2562 | + 587 |

| CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|----------------|---------------|----------------|-------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (in O.D.) | Weight Lbs/Ft. | Setting Depth | Type of Cement | #Sacks Used | Type And Percent Additives |
| Surface | 12-1/4" | 8-5/8" | 839 | DS Lite | 2% CC | 250 | 2% CC |
| | | | | Class C | 2% CC | 150 | 2% CC |
| Production | 7-7/8" | 5-1/2" | 3091 | 65-35 POZ | D59 Flcc 4% | 425 | D59 Flac 4% |
| | | | | Class C | D59 Flcc 4% | 310 | D59 Flac 4% |

| PERFORATION RECORD | | ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD | |
|--------------------|---|---|-----------|
| Shots Per Foot | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) | Depth |
| 4 | 2394 - 2420 2657 - 2666 | 131,082 gallons of water | |
| 4 | 2450 - 2480 | | 2394-2666 |
| 4 | 2514 - 2544 | 991,000 lbs of 8-16 Sn | |
| 4 | 2562 - 2602 | | |
| 4 | 2618 - 2624 | | |

| | | | | |
|---------------|--------------------|--------------------|-----------|---|
| TUBING RECORD | Size <u>2-3/8"</u> | Set At <u>2634</u> | Packer at | Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|---------------|--------------------|--------------------|-----------|---|

| | |
|--|--|
| Date of First Production <u>5/3/88</u> | Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain) |
|--|--|

| | | | | | |
|----------------------|-----|----------------|-------|---------------|---------|
| Estimated Production | Oil | Gas <u>597</u> | Water | Gas-Oil Ratio | Gravity |
|----------------------|-----|----------------|-------|---------------|---------|