Oil Field OCR Test Data



Sample Handwritten Forms to Create

Form 1: Daily Production Report

WEST TEXAS FIELD A - DAILY REPORT

Date: July 28, 2024 Well: WT-001

Oil Production: 1,247 BBL Gas Production: 3,891 MCF Wellhead Pressure: 2,156 PSI

Temperature: 187°F Water Cut: 12.5% Flow Rate: 1,050 BPD

Operator: J. Smith Time: 08:30 AM

Form 2: Well Test Results

FIELD TEST REPORT

Location: North Dakota Field B

Date: 07/27/2024

PRODUCTION DATA:

- Oil Prod: 892 barrels

- Gas Prod: 4,250 MCF

- WH Pressure: 1,890 PSI

- Surface Temp: 165 degrees F

- Water Content: 8.2%

Notes: Normal operation Inspector: M. Johnson

Form 3: Abbreviated Field Notes

ND-B Well #47

7/26/24

Oil: 1,156 BBL

Gas: 3,520 MSCF

Press: 2,340 psi Temp: 178°F

H2O Cut: 15%

Status: OK

Crew: Day Shift

Form 4: Messy Handwritten Notes

West TX Field A

July 25, 2024

Daily Production:

Oil Production = 1089 bbl

Gas production = 3756 mcf

Wellhead pressure = 2245 PSI

Temperature = 184 F

water cut = 9.8 percent

Equipment Status: Normal

Weather: Clear

Form 5: Mixed Format Report

PRODUCTION SUMMARY

Field: Oklahoma Field C Report Date: 07/24/2024

OIL PROD: 967 BBL

GAS PROD: 2,890 MCF WH PRESS: 1,678 PSI

TEMP: 172°F WATER: 6.5%

FLOW RATE: 845 BOPD

Remarks: Routine operation

Supervisor: R. Davis

Shift: Night

How to Create Test Images

Method 1: Write by Hand & Photograph

- 1. Write any of the above forms on paper with a pen
- 2. Take a clear photo with your phone
- 3. Ensure good lighting and contrast
- 4. Keep the paper flat and text horizontal

Method 2: Use Online Handwriting Generators

- MyScript (myscript.com) Convert text to handwriting
- **Handwriting.io** Generate handwritten text
- **PilotHandwriting** Create realistic handwritten documents

Method 3: Create Digital Mock-ups

Use tools like:

- Canva Create form templates
- Google Docs Type and print forms
- Microsoft Paint Draw simple forms

Method 4: Print & Write Over

- 1. Print a blank form template
- 2. Fill in by hand with the sample data
- 3. Photograph the completed form

im Photography Tips for OCR Testing

Good Image Characteristics:

- I High contrast (dark text on light background)
- Sharp focus
- V Horizontal text alignment
- Minimal background distractions

Test Different Scenarios:

- 🍃 Clean, neat handwriting
- Messy, hurried writing

- Different pen types (ballpoint, marker, pencil)
- Various paper colors and textures
- Different lighting conditions
- Slightly rotated or skewed images

Sample Data Variations

Easy OCR Cases:

Oil Production: 1500 BBL Gas Production: 4000 MCF Wellhead Pressure: 2000 PSI

Temperature: 180°F

Medium Difficulty:

Oil Prod = 1,247 barrels

Gas prod = 3891 mcf

WH Press = 2156 psi

Temp = 187 degrees F

Challenging Cases:

oil: 1247bbl (crossed out: 1250)

gas: ~3900 MCF pressure: 2156 PSI

temp: 187°F (maybe 189?)

Expected OCR Results

Your enhanced OCR system should extract:

json

```
[
   "parameter": "Oil Production",
  "value": "1247",
  "unit": "BBL",
  "confidence": 0.94
 },
   "parameter": "Gas Production",
  "value": "3891",
  "unit": "MCF",
  "confidence": 0.87
 },
  "parameter": "Wellhead Pressure",
  "value": "2156",
  "unit": "PSI",
  "confidence": 0.92
 },
  "parameter": "Temperature",
  "value": "187",
  "unit": "°F",
  "confidence": 0.89
 }
]
```

o Testing Strategy

Progressive Testing:

- 1. Start Simple Clear, printed text
- 2. Add Complexity Handwritten forms
- 3. **Test Edge Cases** Messy writing, poor lighting
- 4. Validate Results Check extraction accuracy

Test Categories:

- **Parameter Recognition** Does it find the right fields?
- **Value Extraction** Are numbers correct?
- Unit Detection Are units properly identified?
- Confidence Scoring Do scores reflect quality?

Quick Mobile Test

If you want to test immediately:

- 1. Open Notes app on your phone
- 2. Type one of the sample forms above
- 3. Take a screenshot
- 4. Upload to your OCR system
- 5. See how it performs with digital text first

Free Image Resources

If you need actual images:

- Unsplash Search "forms", "documents", "handwriting"
- **Pexels** Similar search terms
- Google Images "oil field forms", "handwritten reports" (use with proper permissions)

Pro Tip: Start with the simplest samples first to verify your OCR pipeline is working, then gradually increase complexity to test edge cases!