

# MMS Historical Well Data Cleanup

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## – Background

- Internal Customers.
  - *Spending 30-40% of their time doing data management*
  - *Corrections made at project level only*
  - *Lost faith in corporate data/record stores*
- Industry (DMWG)
  - *Also spending too much time doing data management*
  - *High demand for improved data quality*
  - *Duplication of time, effort and \$\$\$*

# MMS Historical Well Data Cleanup

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## – Purpose & Scope

- Reconciliation of paper and digital well records.
  - *A complete and accurate digital record (missing wells)*
  - *An inventory of available data types*
  - *Linkage between all record/data stores*
- Review records and data for ~38,000 wells
  - *Imaging of well file and related documents*
  - *Verify digital record against document contents*
  - *Correct, update or add information to digital record*

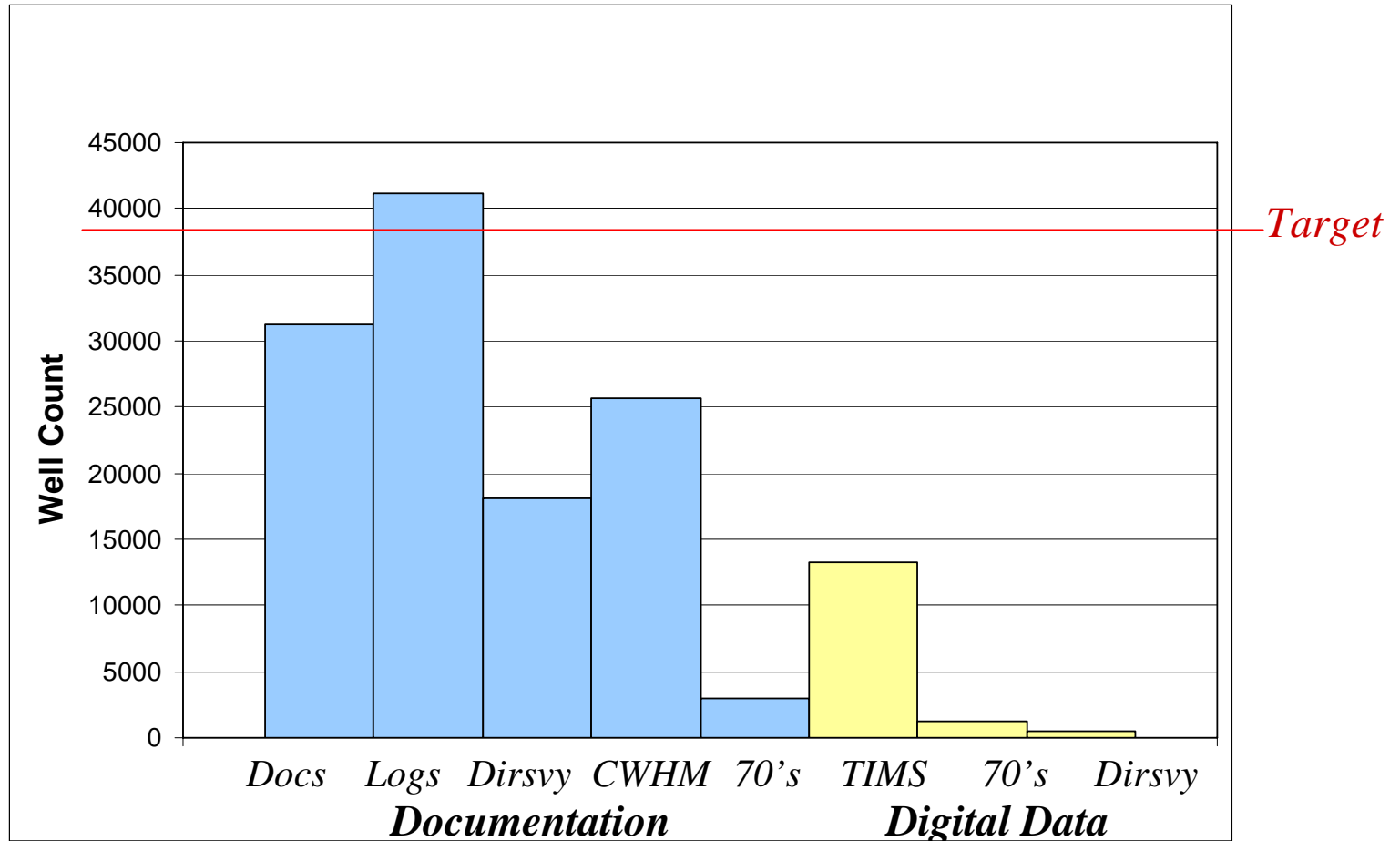
# MMS Historical Well Data Cleanup

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## – History

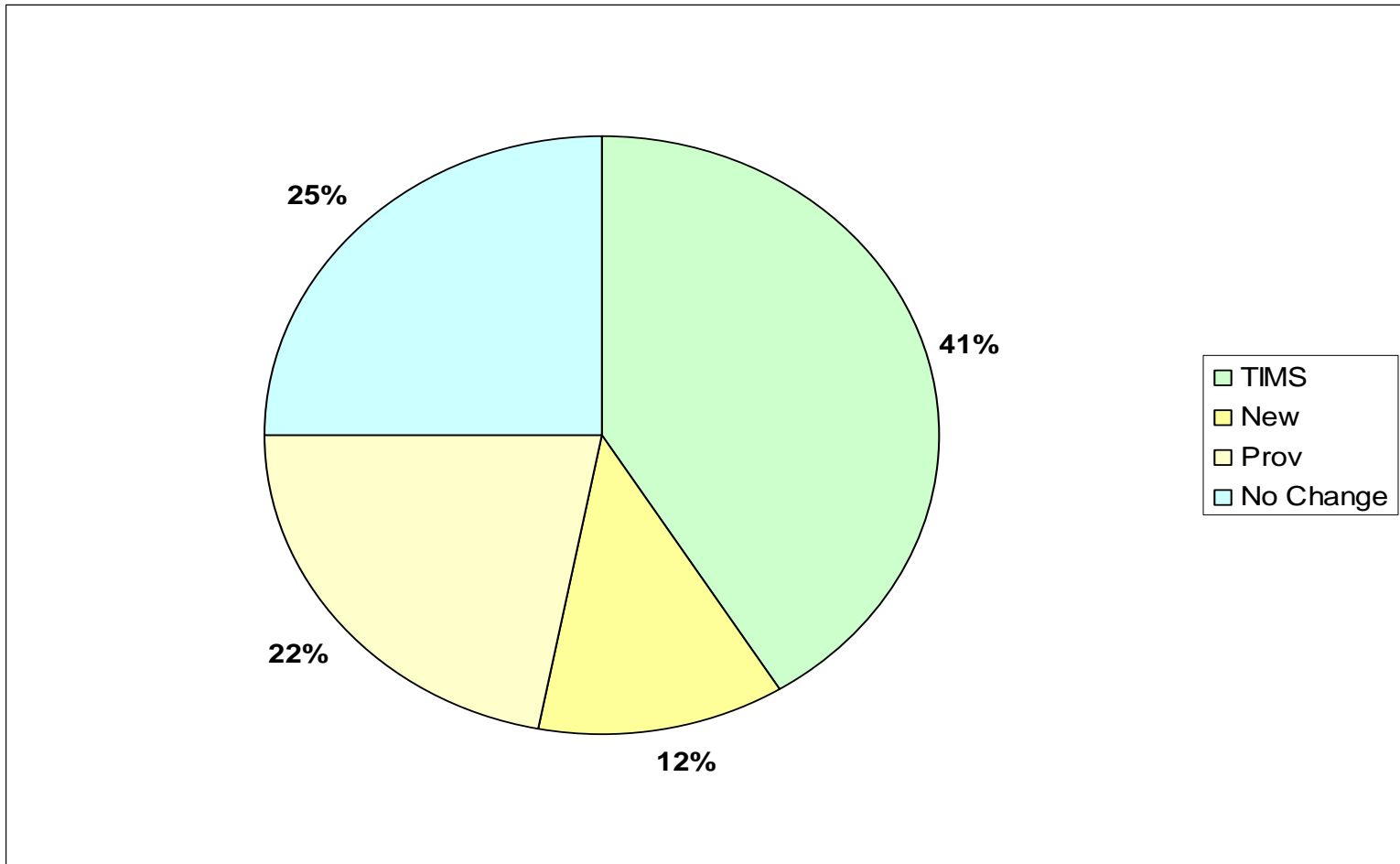
- Initial Project.
  - *October 1999 – April 2004*
  - *Cleanup, verification & integration of 12 key data types*
  - *Revised to 5 key data types in 2002*
  - *Cancelled in 2004*
    - Taking too long for each well
    - Produced mixed results

# MMS Historical Well Data Cleanup Overall Results



# MMS Historical Well Data Cleanup CWHM Analysis (25,684 wells)

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# MMS Historical Well Data Cleanup

## Lessons Learned

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- Review all material together at one time
  - *too many discrepancies between data types*
- Probably not necessary to review every well
  - *25% of wells had no changes*
- Work with data in situ and use existing tools
  - *significant overhead from extract/audit/load process*
- Finding problems versus fixing problems
  - *22% of wells left as provisional*

# New Data Cleanup Initiatives

## Legacy Data Verification (LDV)

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- MMS Data & Information Management Services
  - *Contract awarded to General Dynamics – June 2004*
  - *Includes data verification activities for TDMS*
- Established priorities for LDV
  - *Missing well bores*
  - *Well name suffixes*
  - *Document imaging*
  - *Missing data*
  - *Erroneous data*

# New Data Cleanup Initiatives

## Current Status

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- Scanned well files and related documents
  - *816,000 images linked to TIMS wells*
  - *47,000 directional surveys*
- Scanned logs
  - *258,000 images linked to TIMS wells*
- 70-series wells
  - *1,605 wells added to TIMS*
- Other Data Problems (DPRF)
  - *~3000 data problems since October 2004*



# New Data Cleanup Initiatives

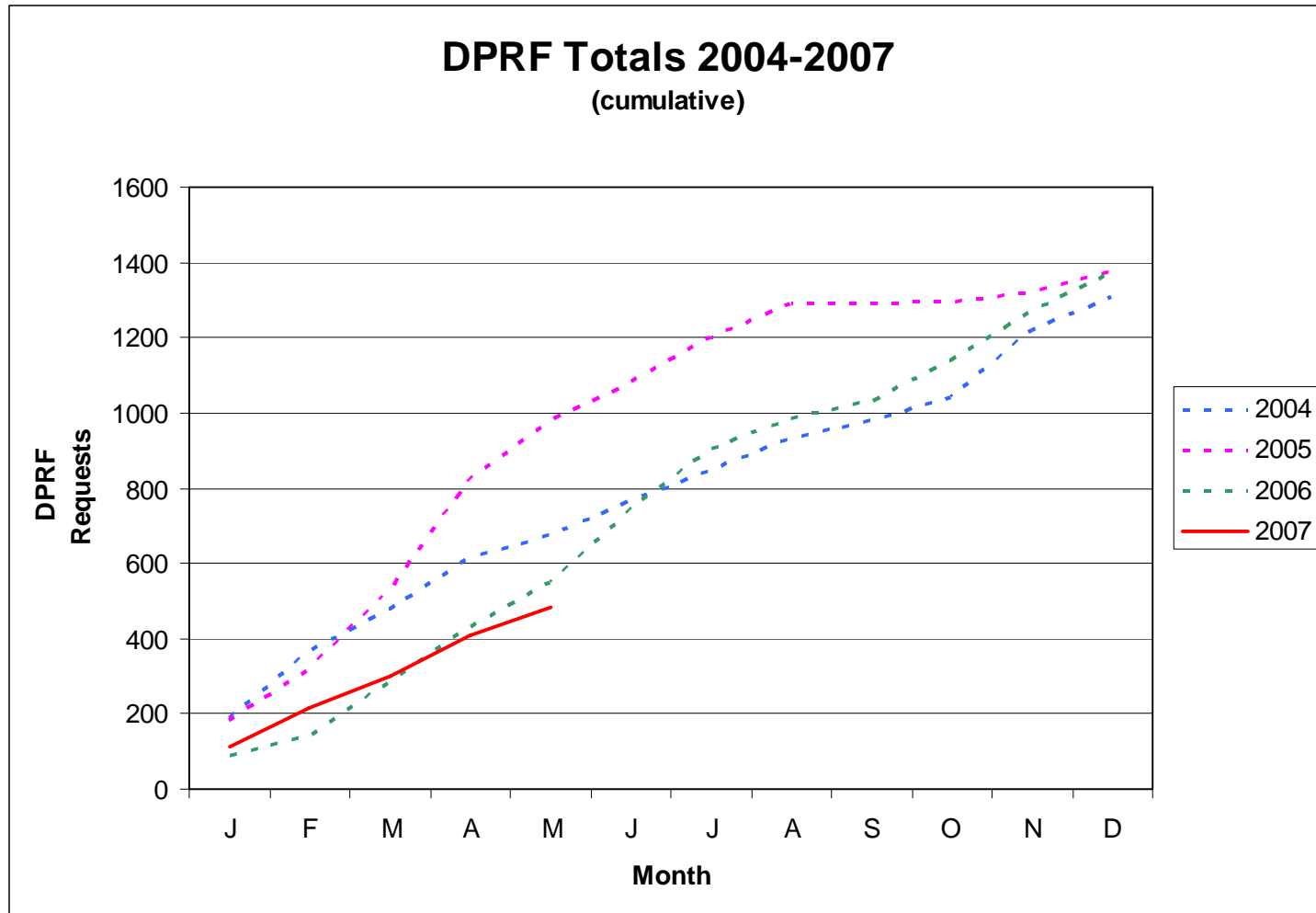
## Data Problem Reports

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- An internal system for documenting and tracking data problems from initial report through to final solution.
- Accessible to all MMS users
  - *Web form (DPRF)*
- External/industry users
  - *Email: [TDMS@mms.gov](mailto:TDMS@mms.gov)*
  - *TDMS enter DPRF*
- DPRF activity
  - *110 problems/month*

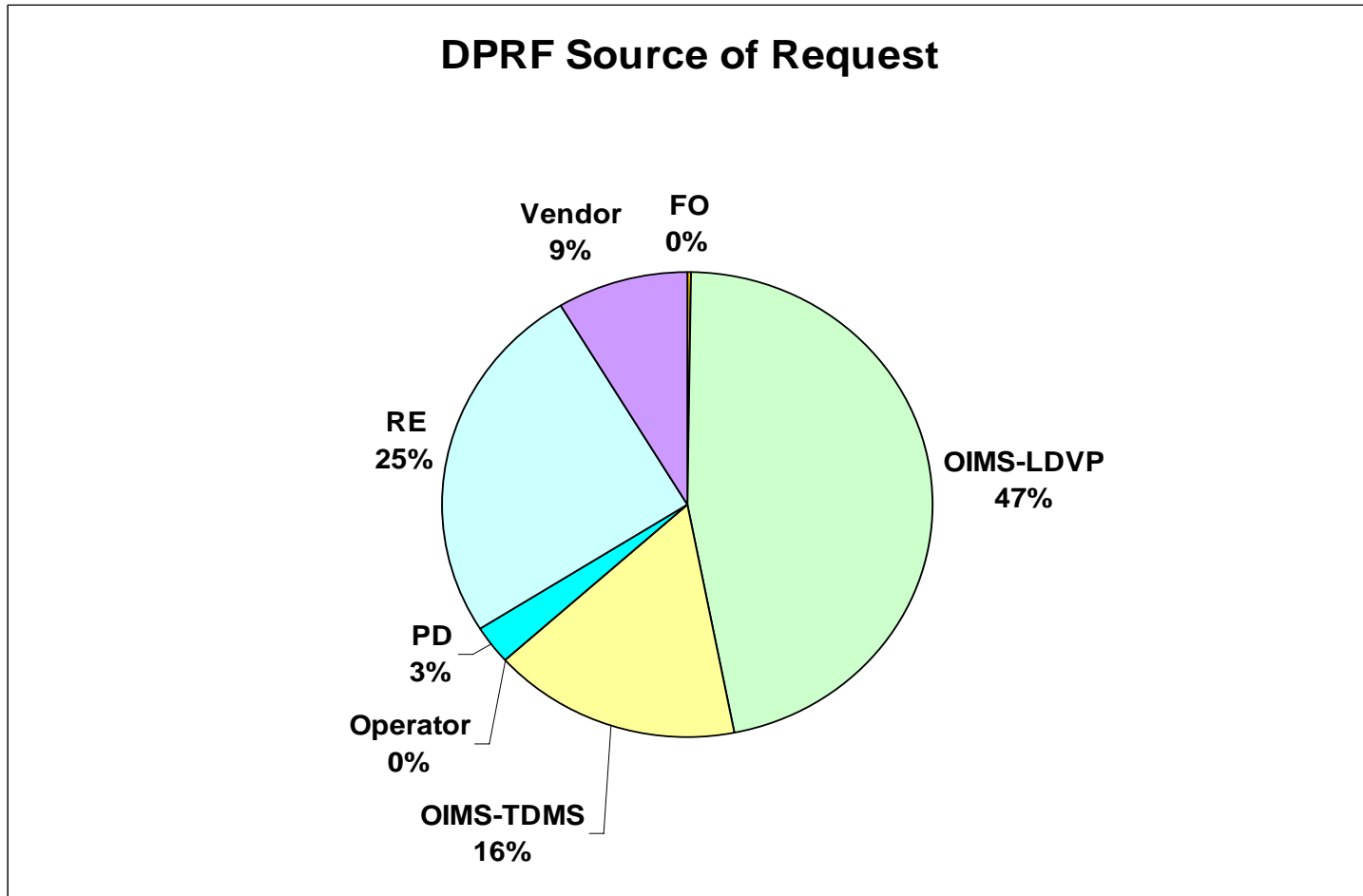
# New Data Cleanup Initiatives

## DPRF Activity



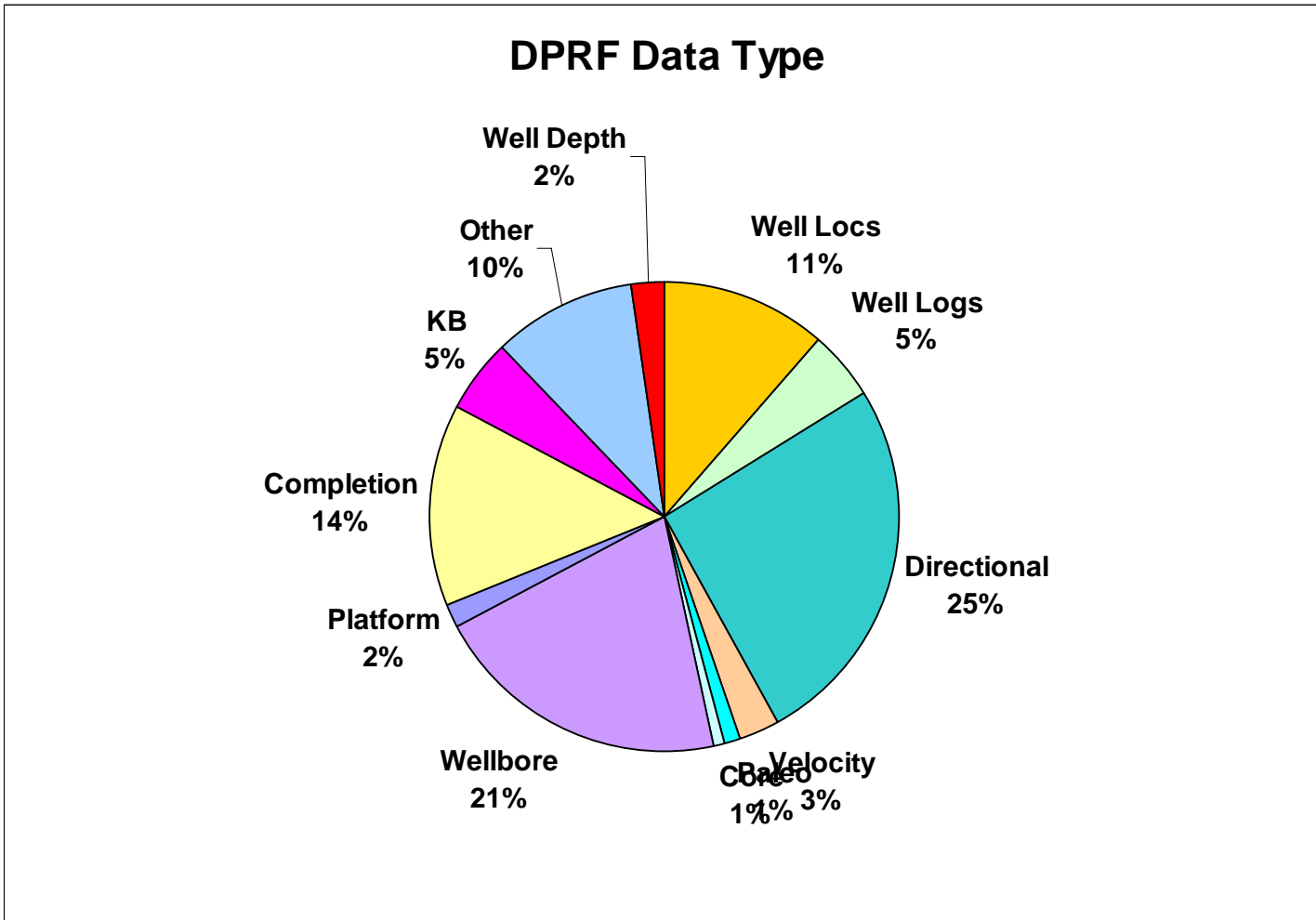
# New Data Cleanup Initiatives

## DPRF Sources



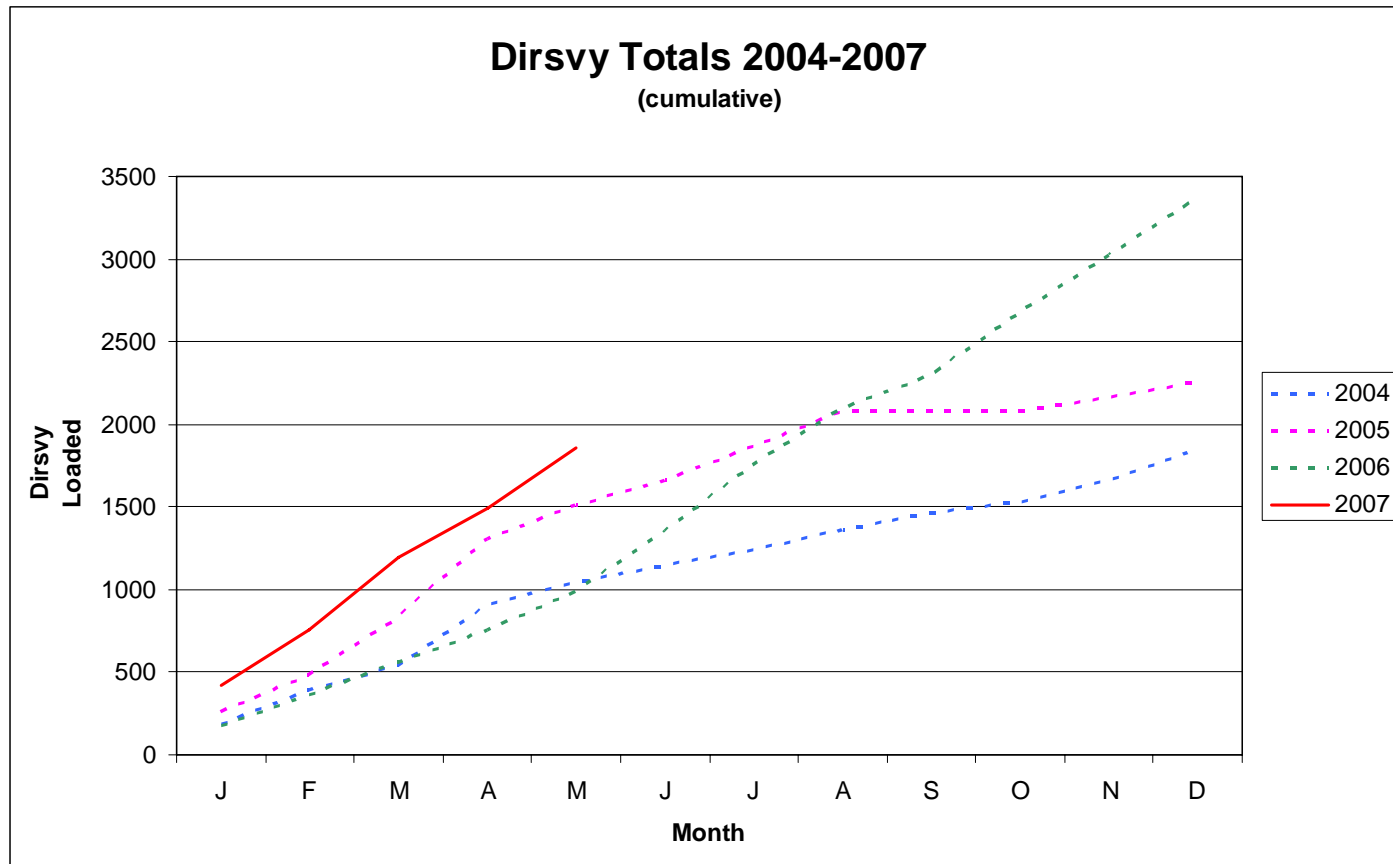
# New Data Cleanup Initiatives

## DPRF Data Types



# New Data Cleanup Initiatives

## Directional Surveys



# New Data Cleanup Initiatives

## Gulf Wide Activities

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- Erroneous/invalid directional survey points.
  - *Algorithm/program run against TIMS*
- Wells missing from Sale 204 blocks
  - *HWDC wells not in TIMS*
- Velocity & Core Analysis compliance
  - *Key word search of drilling narrative*
- Harvest HWDC results
  - *Missing wells*
  - *Linkage of available documentation*

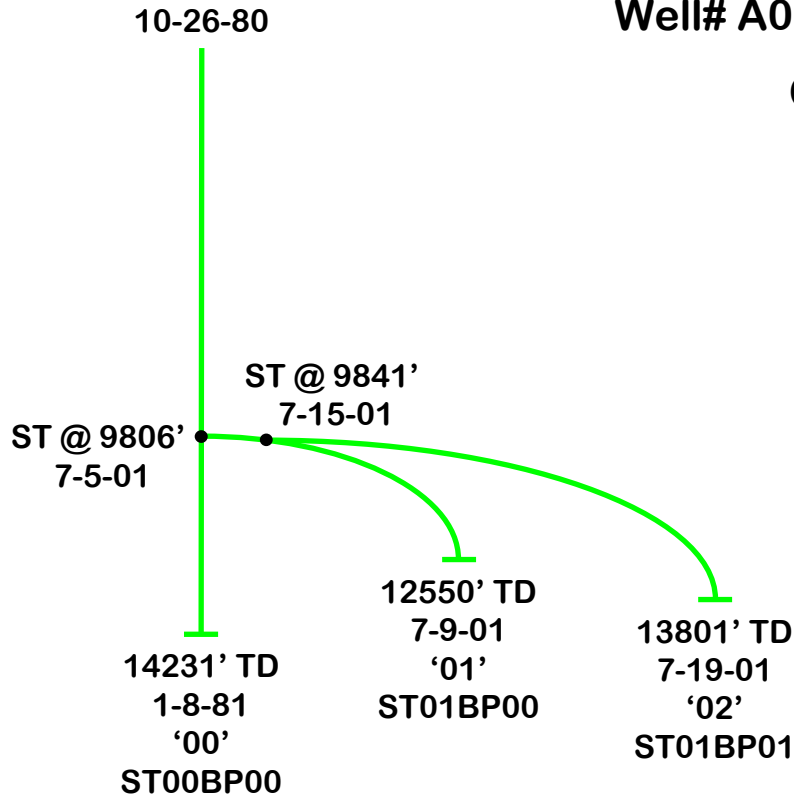


API# 1772140169\*

South Pass Blocks 48 & 49

Well# A007 - Lease# G02176 & G02177

Chevron Oil Company





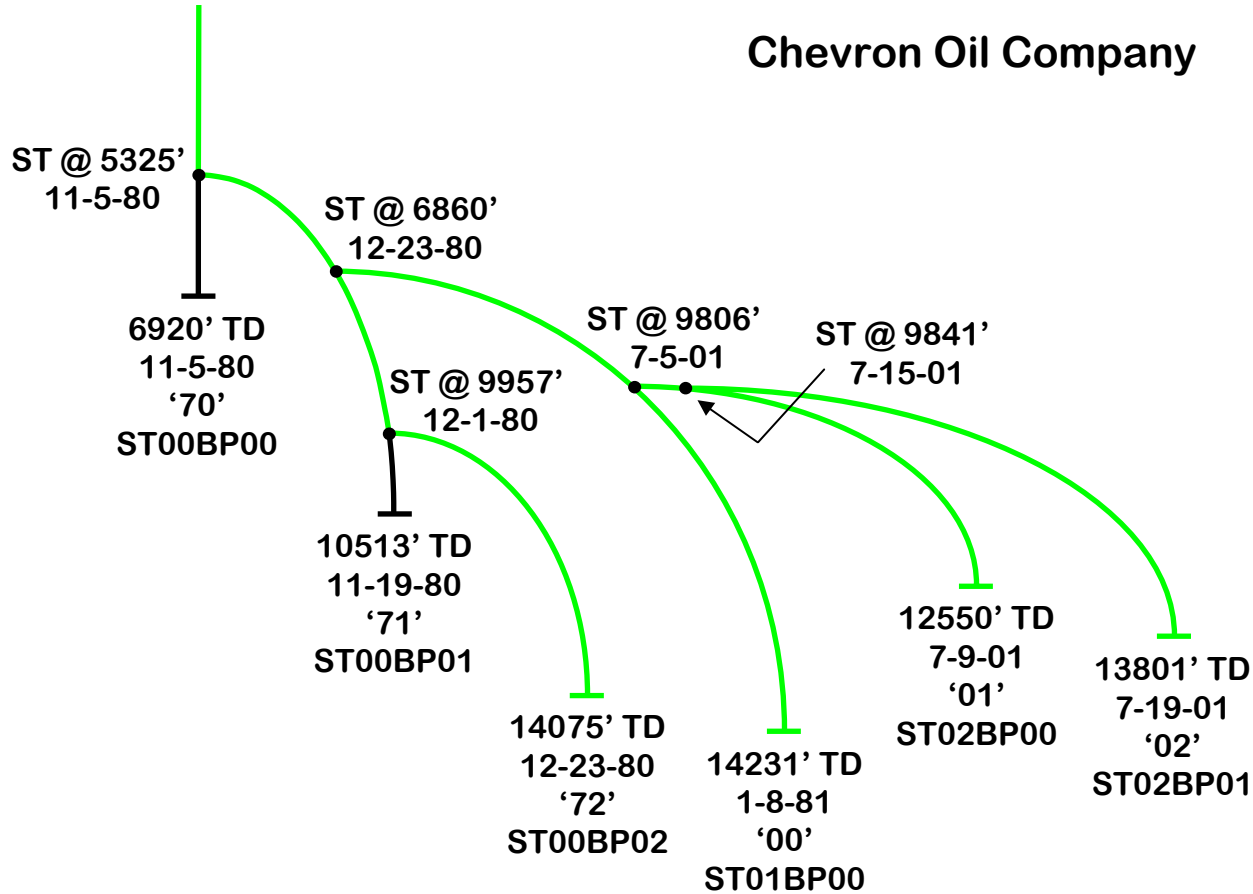
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API# 1772140169\*

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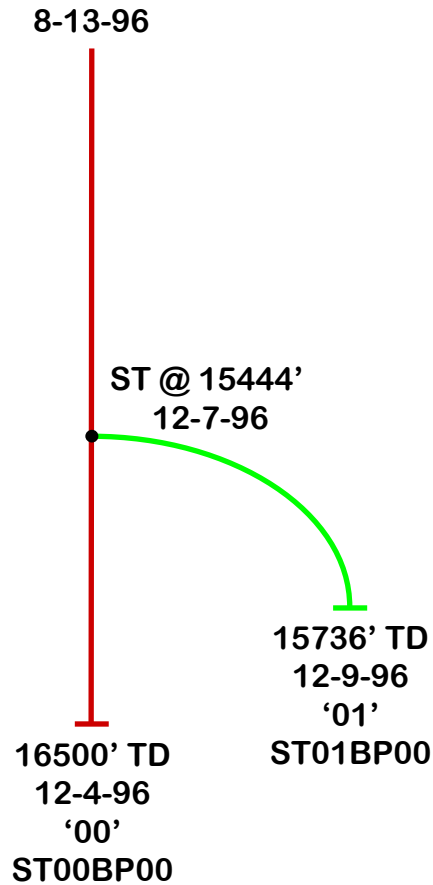


API# 6081150097\*

Green Canyon Block 248

Well# 002 - Lease# G15565

Shell Oil Company



LEGEND	
	LOGS / DIR / CHKSHT
	LOGS / DIR



API# 6081150097\*

Green Canyon Block 248

Well# 002 - Lease# G15565

Shell Oil Company

