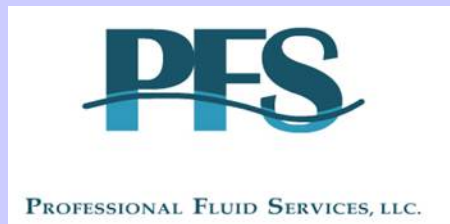




ULTRA SPACER®

Date: October 10, 2005

- ▶ **UPDATED CASE HISTORIES**
INLAND BARGE-LOUISIANA
OKLAHOMA
GULF OF MEXICO



OPERATORS:

BP

MAGNUM HUNTER/CIMAREX

NEWFIELD EXPLORATION

BASS ENTERPRISES

DAVIS PETROLEUM



RECENT ULTRA SPACER® CASE HISTORIES

BASS ENTERPRISES-STATE LEASE, INLAND BARGE

Well Location-Well Name: Pointalahache, Louisiana - VUB Morgan City #8

Open Hole Size: 12 1/4"

Casing Size: 9 5/8"

Mud Weight: 12.4 lb/gal WBM

Cement Density: 16.4 lb/gal

Ultra Spacer Volume: 55 bbl's

Ultra Spacer Density: 14.0 lb/gal

Objective: Solve loss circulation during cement displacement and maximize cement bond.

Post well Results: For the first time in this field, full returns were documented for the entire cement displacement.

Reference: Pat Blanchard - Drilling Superintendent PH# 504-836-7200

Well Location-Well Name: Pointalahache, Louisiana - VUB Morgan City #8

Open Hole Size: 6 3/4"

Liner Size: 5 1/2"

Mud Weight: 15.6 lb/gal WBM

Cement Density: 16.4 lb/gal

Ultra Spacer Volume: 25 bbl's

Ultra Spacer Density: 16.0 lb/gal

Objective: Solve loss circulation during cement displacement and maximize cement bond.

Post well Results: full returns were documented for the entire cement displacement.

Reference: Pat Blanchard - Drilling Superintendent PH# 504-836-7200



RECENT ULTRA SPACER CASE HISTORIES

BP-OKLAHOMA

Well Location/Name: Red Oak, Oklahoma - Harmon McFerran 7-34

Open Hole Size: 8 ³/₄"

Casing Size: 5 ¹/₂"

Mud Weight: 10.5 lb/gal OBM

Cement Density: 16.4 lb/gal

Ultra Spacer Volume: 45 bbl's

Ultra Spacer Density: 8.5 lb/gal

Objective:

Maximize cement bond, minimize formation damage from the filtrate of the cement slurry.

Post Well Results:

As indicated by a CBL, good isolation/cement bond resulted across the interval.

Reference: [Louis Romo - Drilling Engineer Ph# 281-366-4632](#)

Well Location/Name: Red Rock, Oklahoma - Myton #11

Open Hole Size: 12 ¹/₄"

Casing Size: 9 ⁵/₈"

Mud Weight: Air Drilling

Cement Density: 16.4 lb/gal

Ultra Spacer Volume: 45 bbl's

Ultra Spacer Density: 8.5 lb/gal

Objective:

Achieve good isolation/cement bond across a shallow fresh water aquifer at +/- 500' and eliminate a short string of casing which had been required in previous wells to isolate the aquifer.

Post Well Results:

Great hole cleaning along with good bonding resulted across the entire interval, including across the fresh water aquifer. Substantial savings was realized by eliminating the short string of casing which had been required in previous wells.

Reference: [Roberto Pena - Drilling Engineer Ph# 281-366-7892](#)



RECENT ULTRA SPACER CASE HISTORIES

CIMAREX-MAGNUM HUNTER / GULF OF MEXICO

Well Location/Well Name: Main Pass Block 185 - Well #1

Open Hole Size: 9 7/8"

Casing Size: 7 5/8"

Mud Weight: 15.8 lb/gal

Cement Density: 17.0 lb/gal

Ultra Spacer Volume: 44 bbl's

Ultra Spacer Density: 16.4 lb/gal

Objective:

Reduce gas migration and casing pressure issues.

Post Well Results:

Due to the non invasive seal fluid migration into the formation from the cement slurry was prevented. Gas migration issues were eliminated and zero casing pressure was observed after the cement job which had never occurred in this field.

Reference: Clay Clary- Drilling Superintendent Ph# 801-270-3850

Well Location/Well Name: Main Pass Block 185 - Well #1

Open Hole Size: 6 3/4"

Liner Size: 5 1/2"

Mud Weight: 16.4 lb/gal WBM

Cement Density: 17.4 lb/gal

Ultra Spacer Volume: 20 bbl's

Ultra Spacer Density: 16.9 lb/gal

Objective:

Reduce gas migration and loss circulation.

Post Well Results:

Gas migration was eliminated and full returns were observed during the entire cement displacement.

Reference: Clay Clary- Drilling Superintendent Ph# 801-270-3850



RECENT ULTRA SPACER CASE HISTORIES

CIMAREX-MAGNUM HUNTER / GULF OF MEXICO

Well Location/Well Name: West Cameron Block 295 - Well #3

Open Hole Size: 14 3/4"

Casing Size: 13 5/8"

Mud Weight: 12.4 lb/gal

Cement Density: 16.4 lb/gal

Ultra Spacer Volume: 75 bbl's

Ultra Spacer Density: 14.0 lb/gal

Objective:

Mud/filter cake removal, reduce gas migration and reduce the risk of loss circulation during the cement displacement.

Post Well Results:

Excellent mud cleaning/filter cake removal as observed at the flow line, the entire interval was cemented without any incidence of loss circulation.

Reference: Clay Clary- Drilling Superintendent Ph# 801-270-3850

Well Location/Well Name: West Cameron Block 295 - Well #3

Open Hole Size: 12 1/4"

Casing Size: 9 5/8"

Mud Weight: 16.8 lb/gal OBM

Cement Density: 17.1 lb/gal

Ultra Spacer Volume: 56 bbl's

Ultra Spacer Density: 16.9 lb/gal

Objective:

Mud/filter cake removal, achieve good isolation and reduce the risk of loss circulation during cement displacement.

Post Well Results:

The interval was cemented without any documented loss of circulation, the casing shoe was tested to 18.4 lb/gal and the production interval is currently being drilled.

Reference: Clay Clary- Drilling Superintendent Ph# 801-270-3850



RECENT ULTRA SPACER CASE HISTORIES

CIMAREX-MAGNUM HUNTER / GULF OF MEXICO

Well Location: West Cameron Block 577

Open Hole Size: 9 7/8"

Casing Size: 7 5/8"

Mud Weight: 12.8 lb/gal OBM

Cement Density: 16.4 lb/gal

Ultra Spacer Volume: 30 bbl's

Ultra Spacer Density: 14.0 lb/gal

Objective:

Prevent micro annular gas migration due to the fluid loss from the cement slurry.

Post Well Results:

Due to the non invasive seal created across the interval, fluid loss from the cement slurry was reduced eliminating gas migration/casing pressure issues. The casing shoe was tested and drilling operations commenced.

DAVIS PETROLEUM / TEXAS

Well Location: Harden County, Texas - Hampton Jenny #1

Open Hole Size: 9 7/8"

Casing Size: 7 5/8"

Mud Weight: 9.5 lb/gal

Cement Density: 16.4 lb/gal

Ultra Spacer Volume: 50 bbl's

Ultra Spacer Density: 10.5 lb/gal

Objective:

Prevent loss circulation and maximize isolation across production sands.

Post Well Results:

The entire interval was cemented without loss circulation resulting in good isolation across the production sands, as indicated by a CBL.



RECENT ULTRA SPACER CASE HISTORIES

Newfield Exploration

Well Location: Eastern Oklahoma

Open Hole Size: 9 7/8"

Casing Size: 7"

Mud Weight: 9.0 lb/gal

Cement Density: 13.5 lb/gal

Ultra Spacer Volume: 37 bbl's

Ultra Spacer Density: 12.5 lb/gal

Objective:

Operator was going to drill deeper and set a 5 1/2" production string. Due to loss circulation problems they were required to set a short string of 7" intermediate casing.

Post Well Results:

The cement job started with partial returns. 158 bbls into the displacement, total losses occurred. Partial returns were regained 250 bbls into the displacement and maintained for the rest of the job. Partial returns started just before the last few barrels of spacer entered the annulus.



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