



**Pumping
Service Report**

9191254

| | | | |
|---|-----------------------------------|------------------------------|-----------------------|
| Client Name Anadarko Petroleum Corporation | Well Name Apollo #1 | Job Date May 07, 2014 | Call Sheet 1041779 |
| Client Representative Traux Deal | Location NE NE Sec 19:T1N:R65W | Job Type Retainer Squeeze | Rig Basic 1549 |

Well Profile

| | |
|--|----------|
| Well Type: | Oil |
| Maximum Treating Pressure (psi): | --- |
| Predicted Bottom Hole Static Temperature (°F): | --- @ -- |
| Bottom Hole Circulating Temperature (°F): | --- @ -- |
| Bottom Hole Logged Temperature (°F): | --- @ -- |

Products

Plug 1

From Depth (ft):

To Depth (ft):

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 190 Sacks of 1-1-0 G, Density = 13.5 lb/gal, Volume Pumped = 56.2 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 20 % of Silica Flour,
+ 3 % of Gel,
+ 0.1 % of SMS,
+ 0.4 % of CFR-2,
+ 0.4 % of CFL-3

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

| Fluid Type | Viscosity (cP) | Density (lbs/gal) | Yield Point (psi) | Temperature (°F) | Recorded@ |
|------------|----------------|-------------------|-------------------|------------------|--------------------|
| Water | -- | 8.340 | -- | -- | May 01, 2014 16:45 |

Attachment & Tools

Down Hole Tools

| Tool Type | Depth (ft) | Supplier |
|-----------------|------------|----------|
| Cement Retainer | 6,620.000 | Client |



**Pumping
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9191254

Units & Personnel

| Units | | | | | | | |
|-----------------------|------------------|-----------------|-------------------------|------------------|---------------------|-------------------------|--------------------------|
| <u>Truck Unit No.</u> | <u>Main Type</u> | <u>Sub Type</u> | <u>Tractor Unit No.</u> | <u>Main Type</u> | <u>Sub Type</u> | <u>Time On Location</u> | <u>Time Off Location</u> |
| 201274 | PICKUP | 3/4 Ton | | | | 05/07/2014 07:00 | 05/07/2014 10:15 |
| 445020 | TRAILER | Twin Pumper | 745020 | TRACTOR | Tandem - Tractor | 05/07/2014 07:00 | 05/07/2014 10:15 |
| 446173 | TRAILER | Bulker | 746173 | TRACTOR | Tandem - Tractor | 05/07/2014 07:00 | 05/07/2014 10:15 |

Crew and Bonuses

| <u>Employee</u> | <u>Start Shift</u> | <u>End Shift</u> | <u>Second Start Shift</u> | <u>Second End Shift</u> |
|-------------------|--------------------|------------------|---------------------------|-------------------------|
| Hardwick, Waco | 05/07/2014 07:00 | 05/07/2014 10:15 | | |
| Laeger, Kacey | 05/07/2014 07:00 | 05/07/2014 10:15 | | |
| Svoboda, Miloslav | 05/07/2014 07:00 | 05/07/2014 10:15 | | |
| Cheal, Samuel | 05/07/2014 07:00 | 05/07/2014 10:15 | | |

Treatment Reports & Remarks

| Treatment Report | | | | | | | | | |
|------------------|--------------------|--|-------------------|-------------|-------------------------|-------------------------|---------------------|---------------------|--|
| <u>Event #</u> | <u>Event Time</u> | <u>Event Description</u> | <u>Fluid Type</u> | <u>Rate</u> | <u>Tubular Pressure</u> | <u>Annular Pressure</u> | <u>Stage Volume</u> | <u>Total Volume</u> | |
| | | | | (bbl/min) | (psi) | (psi) | (bbl) | (bbl) | |
| 1 | May 07, 2014 06:30 | Arrive On Location | | -- | -- | -- | -- | 0.00 | |
| 2 | May 07, 2014 06:40 | Tailgate Meeting | | -- | -- | -- | -- | 0.00 | |
| 3 | May 07, 2014 06:50 | Rig In | | -- | -- | -- | -- | 0.00 | |
| 4 | May 07, 2014 07:30 | Safety Meeting | | -- | -- | -- | -- | 0.00 | |
| 5 | May 07, 2014 07:40 | Sign-off on Safety | | -- | -- | -- | -- | 0.00 | |
| 6 | May 07, 2014 07:42 | Pressure Test | Water | 0.30 | 3,500.0 | 0.0 | 0.50 | 0.50 | |
| | | Remarks: Pressure test uor iron. | | | | | | | |
| 7 | May 07, 2014 07:46 | Pressure Test | Water | 0.50 | 3,000.0 | 0.0 | 1.50 | 2.00 | |
| | | Remarks: Pressure test tubing | | | | | | | |
| 8 | May 07, 2014 08:11 | Pressure Test | Water | 0.30 | 2,500.0 | 0.0 | 0.50 | 2.50 | |
| | | Remarks: Pressure test our iron. | | | | | | | |
| 9 | May 07, 2014 08:14 | Establish Circulation | Water | 2.80 | 1,100.0 | 0.0 | 9.00 | 11.50 | |
| | | Remarks: Establish circulation and Injection rate. | | | | | | | |
| 10 | May 07, 2014 08:18 | Pump | 1-1-0 G | 2.80 | 500.0 | 0.0 | 58.00 | 69.50 | |
| 11 | May 07, 2014 08:39 | Displace Fluid | Water | 2.80 | 1,000.0 | 0.0 | 22.60 | 92.10 | |
| | | Remarks: Displaced a total of 22.6 bbls. leaving 3 bbls. on top of retainer. | | | | | | | |
| 12 | May 07, 2014 08:50 | Pull Out Off Retainer | --- | -- | -- | -- | -- | 92.10 | |
| 13 | May 07, 2014 09:00 | Wash | Water | 2.00 | -- | -- | 30.00 | 92.10 | |
| | | Remarks: Wash pump | | | | | | | |
| 14 | May 07, 2014 09:35 | Rig Out | --- | -- | -- | -- | -- | 92.10 | |
| 15 | May 07, 2014 09:55 | Job Complete | --- | -- | -- | -- | -- | 92.10 | |
| 16 | May 07, 2014 10:00 | Pre-Departure Meeting | --- | -- | -- | -- | -- | 92.10 | |
| 17 | May 07, 2014 10:10 | Leave Location | --- | -- | -- | -- | -- | 92.10 | |



**Pumping
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9191254

Treatment Reports & Remarks

Did Float Hold: Not Applicable

Fluid Returns : No

Type :

Volume (bbl) :

Temperature (°F) : --

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

46066



**Pumping
Service Report**

9191256

| | | | | |
|---|--|-------------------------|---------------------------------|-----------------------|
| Client Name Anadarko Petroleum Corporation | Well Name Apollo #1 | Rig Basic 1549 | Job Date May 08, 2014 | Call Sheet 1041807 |
| Client Representative Traux Deal | Surface Well Location NE NE Sec 19:T1N:R65W | Down Hole Well Location | Job Type Circulation Squeeze | |

Well Profile

Well Type: Oil

Maximum Treating Pressure (psi): ---

Predicted Bottom Hole Static Temperature (°F): --- @ --

Bottom Hole Circulating Temperature (°F): --- @ --

Bottom Hole Logged Temperature (°F): --- @ --

Casing

| Size | Weight | Grade | Collapse Pressure | Internal Yield Pressure | Capacity | I.D. | O.D. | Depth From | Depth To |
|-------|---------|-------|-------------------|-------------------------|----------|-------|-------|------------|----------|
| (in) | (lb/ft) | | (psi) | (psi) | (bbl) | (in) | (in) | (ft) | (ft) |
| 4.500 | 11.600 | J-55 | 4,960.0 | 5,350.0 | 85.48 | 4.000 | 5.000 | 0.0 | 5,500.0 |

Tubing

| Size | Weight | Grade | Collapse Pressure | Capacity | I.D. | O.D. | Depth From | Depth To |
|-------|---------|-------|-------------------|----------|-------|-------|------------|-----------|
| (in) | (lb/ft) | | (psi) | (bbl) | (in) | (in) | (ft) | (ft) |
| 2.375 | 4.700 | J-55 | 8,100.000 | 21.260 | 1.995 | 2.910 | 0.000 | 5,500.000 |

Products

Plug 1

From Depth (ft): 4343

To Depth (ft): 4915

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 630 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 133 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

+ 0.5 % of CFR-2,

+ 0.25 % of FMC,

+ 0.5 % of LWA,

+ 0.25 lb/sack of Polyflake

Tail: 20 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 4 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

| Fluid Type | Viscosity (cP) | Density (lbs/gal) | Yield Point (psi) | Temperature (°F) | Recorded@ |
|------------|----------------|-------------------|-------------------|------------------|--------------------|
| Water | -- | 8.340 | -- | -- | May 01, 2014 16:45 |

Attachment & Tools

Down Hole Tools

| Tool Type | Depth (ft) | Supplier |
|-----------------|------------|----------|
| Cement Retainer | 4,343.000 | Client |



Pumping Service Report

9191256

Units & Personnel

| Units | | | | | | | |
|----------------|-----------|-----------------|------------------|-----------|------------------|------------------|-------------------|
| Truck Unit No. | Main Type | Sub Type | Tractor Unit No. | Main Type | Sub Type | Time On Location | Time Off Location |
| 449039 | TRAILER | Utility Trailer | 201274 | PICKUP | 3/4 Ton | 05/08/2014 06:45 | 05/08/2014 12:00 |
| 445020 | TRAILER | Twin Pumper | 745020 | TRACTOR | Tandem - Tractor | 05/08/2014 06:45 | 05/08/2014 12:00 |
| 746502 | BODY JOB | Baby Bulker | | | | 05/08/2014 06:45 | 05/08/2014 12:00 |
| 446167 | TRAILER | Bulker | 746167 | TRACTOR | Tandem - Tractor | 05/08/2014 06:45 | 05/08/2014 12:00 |

Crew and Bonuses

| Employee | Start Shift | End Shift | Second Start Shift | Second End Shift |
|----------------|------------------|------------------|--------------------|------------------|
| Hardwick, Waco | 05/08/2014 06:45 | 05/08/2014 12:00 | | |
| Laeger, Kacey | 05/08/2014 06:45 | 05/08/2014 12:00 | | |
| Daylong, Eric | 05/08/2014 06:45 | 05/08/2014 12:00 | | |
| Wright, Isaac | 05/08/2014 06:45 | 05/08/2014 12:00 | | |

Treatment Reports & Remarks

Treatment Report

| Event # | Event Time | Event Description | Fluid Type | Rate (bbl/min) | Tubular Pressure (psi) | Annular Pressure (psi) | Stage Volume (bbl) | Total Volume (bbl) |
|---------|--------------------|--|------------|-------------------|---------------------------|---------------------------|-----------------------|-----------------------|
| 1 | May 08, 2014 06:45 | Arrive On Location | | -- | -- | -- | -- | 0.00 |
| 2 | May 08, 2014 06:55 | Tailgate Meeting | | -- | -- | -- | -- | 0.00 |
| 3 | May 08, 2014 07:15 | Rig In | | -- | -- | -- | -- | 0.00 |
| 4 | May 08, 2014 07:30 | Safety Meeting | --- | -- | -- | -- | -- | 0.00 |
| 5 | May 08, 2014 07:45 | Sign-off on Safety | | -- | -- | -- | -- | 0.00 |
| 6 | May 08, 2014 07:53 | Pressure Test | Water | 0.30 | 3,000.0 | 0.0 | 0.50 | 0.50 |
| 7 | May 08, 2014 07:55 | Establish Circulation | Water | 3.00 | 1,000.0 | 0.0 | 8.00 | 8.50 |
| 8 | May 08, 2014 07:57 | Pump Preflush | Water | 2.50 | 1,500.0 | 0.0 | 20.00 | 28.50 |
| | | Remarks: SMS preflush | | | | | | |
| 9 | May 08, 2014 08:04 | Pump Spacer | Water | 3.50 | 1,600.0 | 0.0 | 5.00 | 33.50 |
| | | Remarks: Fresh water spacer between SMS and Cement | | | | | | |
| 10 | May 08, 2014 08:06 | Pump | 0-1-0 G | 2.00 | 1,100.0 | 0.0 | 133.00 | 166.50 |
| 11 | May 08, 2014 09:00 | Displace Fluid | Water | 2.00 | 1,000.0 | 0.0 | 13.80 | 180.30 |
| 12 | May 08, 2014 09:15 | Wash | Water | 2.00 | -- | -- | 30.00 | 0.00 |
| 13 | May 08, 2014 11:08 | Pressure Test | Water | 0.30 | 1,500.0 | 0.0 | 0.50 | 180.80 |
| | | Remarks: Pressure test for Plug # 2 | | | | | | |
| 14 | May 08, 2014 11:10 | Establish Circulation | Water | 2.00 | 100.0 | 0.0 | 5.00 | 185.80 |
| 15 | May 08, 2014 11:13 | Pump | 0-1-0 G | 2.00 | 150.0 | 0.0 | 4.00 | 189.80 |
| | | Remarks: Plug # 2, Balance plug | | | | | | |
| 16 | May 08, 2014 11:15 | Displace Fluid | Water | 1.00 | 100.0 | 0.0 | 3.70 | 193.50 |
| | | Remarks: Displace to balance. | | | | | | |
| 17 | May 08, 2014 11:25 | Wash | Water | 2.00 | -- | -- | 30.00 | 0.00 |
| 18 | May 08, 2014 11:45 | Rig Out | | -- | -- | -- | -- | 0.00 |
| 19 | May 08, 2014 12:10 | Job Complete | | -- | -- | -- | -- | 0.00 |
| 20 | May 08, 2014 12:20 | Pre-Departure Meeting | | -- | -- | -- | -- | 0.00 |
| 21 | May 08, 2014 12:30 | Leave Location | | -- | -- | -- | -- | 0.00 |



**Pumping
Service Report**

9191256

Treatment Reports & Remarks

Did Float Hold: Not Applicable

Fluid Returns : No

Type :

Volume (bbl) :

Temperature (°F) : --

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

Material Transfer Sheet Number

Material Transfer Sheet Number

46073

46081

46080

Comments To Service Report

Plug # 1 Cement from 4343 ft. to 4915 ft.

Plug # 2 Cement from 982 ft. to 1240 ft.



**Pumping
Service Report**

9189448

| | | | | |
|---|--|-------------------------|-------------------------------|-----------------------|
| Client Name Anadarko Petroleum Corporation | Well Name Apollo #1 | Rig Basic 1549 | Job Date May 12, 2014 | Call Sheet 1041932 |
| Client Representative Mr Larry Webb | Surface Well Location NE NE Sec 19:T1N:R67W | Down Hole Well Location | Job Type Abandonment Plugs | |

Well Profile

Well Type: Oil

Maximum Treating Pressure (psi): ---

Predicted Bottom Hole Static Temperature (°F): --- @ --

Bottom Hole Circulating Temperature (°F): --- @ --

Bottom Hole Logged Temperature (°F): --- @ --

Casing

| Size (in) | Weight (lb/ft) | Grade | Collapse Pressure (psi) | Internal Yield Pressure (psi) | Capacity (bbl) | I.D. (in) | O.D. (in) | Depth From (ft) | Depth To (ft) |
|--------------|-------------------|-------|----------------------------|----------------------------------|-------------------|--------------|--------------|--------------------|------------------|
| 8.625 | 24.000 | J-55 | 1,370.0 | 2,950.0 | 5.09 | 8.097 | 9.625 | 0.0 | 80.0 |

Products

Plug 1

From Depth (ft):

To Depth (ft):

Plug Type : Abandonment

Acids/Blends/Fluids :

Lead 1: 45 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 9.2 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60

Fluid & Cement Data

Expected Cement Top: Depth (ft): 20

Wellbore Fluid

| Fluid Type | Viscosity (cP) | Density (lbs/gal) | Yield Point (psi) | Temperature (°F) | Recorded@ |
|------------|----------------|-------------------|-------------------|------------------|--------------------|
| Water | -- | 8.340 | -- | -- | May 01, 2014 16:45 |

Attachment & Tools

Down Hole Tools

| Tool Type | Depth (ft) | Supplier |
|-------------|------------|-------------|
| Bridge Plug | 80.000 | Third Party |



**Pumping
Service Report**
9189448

Units & Personnel

Units

| <u>Truck Unit No.</u> | <u>Main Type</u> | <u>Sub Type</u> | <u>Tractor Unit No.</u> | <u>Main Type</u> | <u>Sub Type</u> | <u>Time On Location</u> | <u>Time Off Location</u> |
|-----------------------|------------------|-----------------|-------------------------|------------------|-----------------|-------------------------|--------------------------|
| 200848 | PICKUP | 3/4 Ton | | | | 05/12/2014 09:30 | 05/12/2014 12:30 |
| 740004 | BODY JOB | C & A | | | | 05/12/2014 09:30 | 05/12/2014 12:30 |
| 746506 | BODY JOB | Baby Bulker | | | | 05/12/2014 09:30 | 05/12/2014 12:30 |

Crew and Bonuses

| <u>Employee</u> | <u>Start Shift</u> | <u>End Shift</u> | <u>Second Start Shift</u> | <u>Second End Shift</u> |
|--------------------|--------------------|------------------|---------------------------|-------------------------|
| Bushnell, Cody | 05/12/2014 09:30 | 05/12/2014 12:30 | | |
| Schroeder, Stephen | 05/12/2014 09:30 | 05/12/2014 12:30 | | |
| Williams, Colt | 05/12/2014 09:30 | 05/12/2014 12:30 | | |
| Hickman, James | 05/12/2014 09:30 | 05/12/2014 12:30 | | |
| Keysaw, Earl | 05/12/2014 09:30 | 05/12/2014 12:30 | | |

Treatment Reports & Remarks

Treatment Report

| <u>Event #</u> | <u>Event Time</u> | <u>Event Description</u> | <u>Fluid Type</u> | <u>Rate</u> (bbl/min) | <u>Tubular Pressure</u> (psi) | <u>Annular Pressure</u> (psi) | <u>Stage Volume</u> (bbl) | <u>Total Volume</u> (bbl) |
|----------------|--------------------|--------------------------------|-------------------|--------------------------|----------------------------------|----------------------------------|------------------------------|------------------------------|
| 1 | May 12, 2014 09:30 | Arrive On Location | --- | 0.00 | 0.0 | 0.0 | 0.00 | 0.00 |
| 2 | May 12, 2014 09:35 | Tailgate Meeting | --- | 0.00 | 0.0 | 0.0 | 0.00 | 0.00 |
| 3 | May 12, 2014 09:40 | Safety Meeting | --- | 0.00 | 0.0 | 0.0 | 0.00 | 0.00 |
| 4 | May 12, 2014 09:45 | Sign-off on Safety | --- | 0.00 | 0.0 | 0.0 | 0.00 | 0.00 |
| 5 | May 12, 2014 09:50 | Rig In | --- | 0.00 | 0.0 | 0.0 | 0.00 | 0.00 |
| 6 | May 12, 2014 10:43 | Pressure Test | Water | 0.00 | 0.0 | 0.0 | 0.00 | 0.00 |
| | | Remarks: Test Sanjel Lines | | | | | | |
| 7 | May 12, 2014 10:46 | Pump | Water | 2.00 | 100.0 | 0.0 | 5.00 | 5.00 |
| | | Remarks: Establish Circulation | | | | | | |
| 8 | May 12, 2014 10:48 | Pump | 0-1-0 G | 2.00 | 120.0 | 0.0 | 9.20 | 14.20 |
| | | Remarks: 45 Sacks | | | | | | |
| 9 | May 12, 2014 10:57 | Pump | Water | 1.00 | 100.0 | 0.0 | 1.50 | 15.70 |
| | | Remarks: Clear lines | | | | | | |
| 10 | May 12, 2014 11:15 | JSA | --- | 0.00 | 0.0 | 0.0 | 0.00 | 15.70 |
| | | Remarks: Pre Rig Out Meeting | | | | | | |
| 11 | May 12, 2014 11:30 | Rig Out | --- | 0.00 | 0.0 | 0.0 | 0.00 | 15.70 |
| 12 | May 12, 2014 12:20 | Pre-Departure Meeting | --- | 0.00 | 0.0 | 0.0 | 0.00 | 15.70 |
| 13 | May 12, 2014 12:25 | Job Complete | --- | 0.00 | 0.0 | 0.0 | 0.00 | 15.70 |
| 14 | May 12, 2014 12:30 | Leave Location | --- | 0.00 | 0.0 | 0.0 | 0.00 | 15.70 |

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 1

Temperature (°F) : 60

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : No

No Program Generated



**Pumping
Service Report**

9189448

Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

22495

Comments To Service Report

Job went good and was pumped as per customer request.



Pumping Service Report

9191258

| | | | | |
|---|--|-------------------------|-------------------------------|-----------------------|
| Client Name Anadarko Petroleum Corporation | Well Name Apollo #1 | Rig Basic 1549 | Job Date May 09, 2014 | Call Sheet 1041861 |
| Client Representative Mr. Mike Koch | Surface Well Location NE NE Sec 19:T1N:R65W | Down Hole Well Location | Job Type Abandonment Plugs | |

Well Profile

| | |
|--|----------|
| Well Type: | Oil |
| Maximum Treating Pressure (psi): | --- |
| Predicted Bottom Hole Static Temperature (°F): | --- @ -- |
| Bottom Hole Circulating Temperature (°F): | --- @ -- |
| Bottom Hole Logged Temperature (°F): | --- @ -- |

Casing

| Size | Weight | Grade | Collapse Pressure | Internal Yield Pressure | Capacity | I.D. | O.D. | Depth From | Depth To |
|-------|---------|-------|-------------------|-------------------------|----------|-------|-------|------------|----------|
| (in) | (lb/ft) | | (psi) | (psi) | (bbl) | (in) | (in) | (ft) | (ft) |
| 8.625 | 24.000 | J-55 | 1,370.0 | 2,950.0 | 16.56 | 8.097 | 9.625 | 0.0 | 260.0 |
| 4.500 | 11.600 | J-55 | 4,960.0 | 5,350.0 | 11.04 | 4.000 | 5.000 | 0.0 | 710.0 |

Tubing

| Size | Weight | Grade | Collapse Pressure | Capacity | I.D. | O.D. | Depth From | Depth To |
|-------|---------|-------|-------------------|----------|-------|-------|------------|----------|
| (in) | (lb/ft) | | (psi) | (bbl) | (in) | (in) | (ft) | (ft) |
| 2.375 | 4.700 | J-55 | 8,100.000 | 2.740 | 1.995 | 2.910 | 0.000 | 710.000 |

Products

Plug 1

From Depth (ft): 150
To Depth (ft): 710
Plug Type : Abandonment
Acids/Blends/Fluids :
Tail: 290 Sacks of 0:1:0 Type III, Density = 14.2 lb/gal, Volume Pumped = 75.4 (bbl)
Water Temperature(°F) = 60 , Bulk Temperature(°F) = 60 , Slurry Temperature(°F) = 60
+ 1 % of CaCl₂,
+ 0.25 % of Polyflake

Fluid & Cement Data

| | | | | | |
|-------------------------|----------------|-------------------|-------------------|------------------|--------------------|
| Expected Cement Top: -- | | | | | |
| Wellbore Fluid | | | | | |
| Fluid Type | Viscosity (cP) | Density (lbs/gal) | Yield Point (psi) | Temperature (°F) | Recorded@ |
| Water | -- | 8.340 | -- | -- | May 01, 2014 16:45 |



Pumping Service Report

9191258

Units & Personnel

| Units | | | | | | Time On Location | Time Off Location |
|----------------|-----------|-----------------|------------------|-----------|------------------|------------------|-------------------|
| Truck Unit No. | Main Type | Sub Type | Tractor Unit No. | Main Type | Sub Type | | |
| 449039 | TRAILER | Utility Trailer | 201274 | PICKUP | 3/4 Ton | 05/09/2014 12:45 | 05/09/2014 16:00 |
| 445020 | TRAILER | Twin Pumper | 745020 | TRACTOR | Tandem - Tractor | 05/09/2014 12:45 | 05/09/2014 16:00 |
| 446047 | TRAILER | Bulker | 746047 | TRACTOR | Tandem - Tractor | 05/09/2014 12:45 | 05/09/2014 16:00 |

| Crew and Bonuses | | | | Second Start Shift | Second End Shift |
|------------------|------------------|------------------|--|--------------------|------------------|
| Employee | Start Shift | End Shift | | | |
| Hardwick, Waco | 05/09/2014 12:45 | 05/09/2014 16:00 | | | |
| Laeger, Kacey | 05/09/2014 12:45 | 05/09/2014 16:00 | | | |
| Morris, Theodore | 05/09/2014 12:45 | 05/09/2014 16:00 | | | |

Treatment Reports & Remarks

| Treatment Report | | | | | | | | | |
|--|--------------------|-----------------------|-------------------|-------------------|---------------------------|---------------------------|-----------------------|-----------------------|--|
| Event # | Event Time | Event Description | Fluid Type | Rate (bbl/min) | Tubular Pressure (psi) | Annular Pressure (psi) | Stage Volume (bbl) | Total Volume (bbl) | |
| 1 | May 09, 2014 12:45 | Arrive On Location | --- | -- | -- | -- | -- | 0.00 | |
| 2 | May 09, 2014 12:50 | Tailgate Meeting | --- | -- | -- | -- | -- | 0.00 | |
| 3 | May 09, 2014 13:05 | Rig In | --- | -- | -- | -- | -- | 0.00 | |
| 4 | May 09, 2014 13:35 | Safety Meeting | --- | -- | -- | -- | -- | 0.00 | |
| 5 | May 09, 2014 13:50 | Sign-off on Safety | --- | -- | -- | -- | -- | 0.00 | |
| 6 | May 09, 2014 13:59 | Pressure Test | Water | 0.30 | 1,100.0 | 0.0 | 0.50 | 0.50 | |
| 7 | May 09, 2014 14:01 | Establish Circulation | Water | 2.00 | 1,000.0 | 0.0 | 6.00 | 6.50 | |
| Remarks: We only got returns through the surface casing, nothing through the production casing. | | | | | | | | | |
| 8 | May 09, 2014 14:11 | Pump | 0:1:0 Type III | 2.00 | 100.0 | 0.0 | 53.00 | 59.50 | |
| Remarks: Pumped 53 bbls. slurry and got cement to surface through surface casing, balance to rig tank. | | | | | | | | | |
| 9 | May 09, 2014 14:34 | Displace Fluid | Water | 2.00 | 250.0 | 0.0 | 1.50 | 61.00 | |
| 10 | May 09, 2014 14:34 | Pump | 0:1:0 Type III | 2.00 | 50.0 | 0.0 | 22.00 | 83.00 | |
| Remarks: Pumped 22 bbls. cement that was already mixed up on truck to rig tank. | | | | | | | | | |
| 11 | May 09, 2014 14:55 | Wash | Water | 2.00 | -- | -- | 30.00 | 0.00 | |
| 12 | May 09, 2014 15:20 | Rig Out | --- | -- | -- | -- | -- | 0.00 | |
| 13 | May 09, 2014 15:40 | Job Complete | --- | -- | -- | -- | -- | 0.00 | |
| 14 | May 09, 2014 15:50 | Pre-Departure Meeting | --- | -- | -- | -- | -- | 0.00 | |
| 15 | May 09, 2014 16:00 | Leave Location | --- | -- | -- | -- | -- | 0.00 | |

| | |
|---|----------------|
| Did Float Hold: | Not Applicable |
| Fluid Returns : | Yes |
| Type : | Cement |
| Volume (bbl) : | 22 |
| Temperature (°F) : | 65 |
| FDAS Functioning Correctly : | Yes |
| Was the Program Followed As Per Design? : | Yes |



**Pumping
Service Report**

9191258

Treatment Reports & Remarks

Material Transfer Sheet Number

Material Transfer Sheet Number

46090

Comments To Service Report

Sanjel on location on time. Held tailgate meeting, spotted trucks, rigged in, held safety meeting, signed all jsa's, filled lines and pressure tested to 1000 psi., established circulation (circulation was established through the 8 5/8 surface casing only - no returns through the 4 1/2 production casing at all) pumped 75 bbls. slurry @ 14.2 density (at 53 bbls. slurry away we had cement to surface through the 8 5/8 surface casing) displaced 1.5 bbls. and pumped the balance of the cement to the rig tank and then washed up pump, Had used approximately 203 sx of cement at the time we got returns back to surface through the 8 5/8 surface casing.