



**Pumping
Service Report**

9189466

| | | | |
|---|-----------------------------------|-----------------------------|-----------------------|
| Client Name Anadarko Petroleum Corporation | Well Name State 8-16 | Job Date August 15, 2014 | Call Sheet 1045625 |
| Client Representative Rigo Vierra | Location NE SW Sec 16:T1N:R68W | Job Type Cement Misc. | |

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): | --- @ -- |

| 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 | 67.76 | 8.097 | 9.625 | 0.0 | 1,064.0 |
| 4.500 | 11.600 | J-55 | 4,960.0 | 5,350.0 | 23.31 | 4.000 | 5.000 | 0.0 | 1,500.0 |

| 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 | 5.680 | 1.995 | 2.910 | 0.000 | 1,470.000 |

Products

| |
|---|
| Plug 1 |
| From Depth (ft): 1250 |
| To Depth (ft): 1500 |
| Plug Type : Well Stability |
| Acids/Blends/Fluids : |
| Tail: 115 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 27.24 (bbl) |
| Water Temperature(°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 89 |
| + 0.3 % of CFR-2, |
| + 0.3 % of CFL-3, |
| + 0.5 % of CaCl ₂ , |
| + 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 | -- | 8.400 | -- | -- | Aug 01, 2014 10:36 |



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Units & Personnel

Units

| Truck Unit No. | Main Type | Sub Type | Tractor Unit No. | Main Type | Sub Type | Time On Location | Time Off Location |
|----------------|-----------|-----------------|------------------|-----------|---------------------|------------------|-------------------|
| 449087 | TRAILER | Utility Trailer | 200868 | PICKUP | 3/4 Ton | 08/15/2014 12:10 | 08/15/2014 15:00 |
| 445070 | TRAILER | SCM Twin | 745070 | TRACTOR | Tandem - Tractor | 08/15/2014 12:10 | 08/15/2014 15:00 |
| 446173 | TRAILER | Bulker | 746173 | TRACTOR | Tandem - Tractor | 08/15/2014 12:10 | 08/15/2014 15:00 |

Crew and Bonuses

| Employee | Start Shift | End Shift | Second Start Shift | Second End Shift |
|-------------------|------------------|------------------|--------------------|------------------|
| Contreras, Bennie | 08/15/2014 12:10 | 08/15/2014 15:00 | | |
| Cox, Brandon | 08/15/2014 12:10 | 08/15/2014 15:00 | | |
| Wright, Isaac | 08/15/2014 12:10 | 08/15/2014 15:00 | | |

Treatment Reports & Remarks



Pumping Service Report

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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 | Aug 15,2014 12:10 | Arrive On Location Remarks: Arrived | | -- | -- | -- | -- | 0.00 |
| 2 | Aug 15,2014 12:20 | Tailgate Meeting Remarks: Talked about spotting trucks and rigging in. | | -- | -- | -- | -- | 0.00 |
| 3 | Aug 15,2014 12:25 | Rig In Remarks: Rigged in. | | -- | -- | -- | -- | 0.00 |
| 4 | Aug 15,2014 12:40 | Safety Meeting Remarks: Muster, 911 caller, nearest med., location safety equipt., job scope. | | -- | -- | -- | -- | 0.00 |
| 5 | Aug 15,2014 13:00 | Sign-off on Safety Remarks: Sign all JSAs. | | -- | -- | -- | -- | 0.00 |
| 6 | Aug 15,2014 13:04 | Pressure Test Remarks: Pressure test 3000 psi. | Water | -- | 3,000.0 | -- | -- | 0.00 |
| 7 | Aug 15,2014 13:09 | Pump Remarks: Mix 20 BBLs of SMS and pump down hole.. | Water | 3.00 | 200.0 | -- | 20.00 | 0.00 |
| 8 | Aug 15,2014 13:16 | Pump Remarks: 5 BBL spacer of fresh water. | Water | 1.00 | 300.0 | -- | 5.00 | 0.00 |
| 9 | Aug 15,2014 13:20 | Mix Cement Remarks: Mix and pump 27.24 BBLs of cement @ 14.8.. | 0:1:0 Type III | 2.60 | 450.0 | -- | 27.24 | 0.00 |
| 10 | Aug 15,2014 13:35 | Displace Fluid Remarks: Displace 5.5 BBLs of water. | Water | 2.00 | 750.0 | -- | 5.50 | 0.00 |
| 11 | Aug 15,2014 13:41 | Stop Remarks: Stop and sting out. | | -- | 450.0 | -- | -- | 0.00 |
| 12 | Aug 15,2014 13:45 | Wash Remarks: Wash mix system and runbacks on triplexes. | | 2.00 | 170.0 | -- | 20.00 | 0.00 |
| 13 | Aug 15,2014 14:40 | Rig Out Remarks: Rig down iron. | | -- | -- | -- | -- | 0.00 |
| 14 | Aug 15,2014 14:50 | Job Complete Remarks: Job complete. | | -- | -- | -- | -- | 0.00 |
| 15 | Aug 15,2014 14:51 | Pre-Departure Meeting Remarks: Journey management. | | -- | -- | -- | -- | 0.00 |
| 16 | Aug 15,2014 15:00 | Leave Location Remarks: Leave | | -- | -- | -- | -- | 0.00 |

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
46821
46825

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

Print Date: August 21, 2014
Service Report: 9189466
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**Pumping
Service Report**

9193310

| | | | | |
|---|--|---------------------------------|-------------------------------|-----------------------|
| Client Name Anadarko Petroleum Corporation | Well Name State 8-16 | Rig Ensign Drilling Inc. 328 | Job Date August 26, 2014 | Call Sheet 1046151 |
| Client Representative Rigo Vierra | Surface Well Location NE SW Sec 16:T1N:R68W | 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): --- @ ---

| 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 | 0.78 | 4.000 | 5.000 | 1,450.0 | 1,500.0 |

| 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 | 5.610 | 1.995 | 2.910 | 0.000 | 1,450.000 |

Products

Plug 1

From Depth (ft): 1450

To Depth (ft): 1500

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 50 Sacks of Control Set C, Density = 13.5 lb/gal, Volume Pumped = 15.5 (bbl)

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

+ 2 % of CaCl₂ (Preblend),

+ 2 % of SMS (Preblend),

+ 2 % of Gypsum (Preblend)

Fluid & Cement Data

Expected Cement Top: --

Wellbore Fluid

| Fluid Type | Viscosity (cP) | Density (lbs/gal) | Yield Point (psi) | Temperature (°F) | Recorded@ |
|------------|----------------|-------------------|-------------------|------------------|--------------------|
| Water | -- | 8.400 | -- | -- | Aug 01, 2014 10:36 |



**Pumping
Service Report**

9193310

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 | | | | 08/26/2014 09:30 | 08/26/2014 12:30 |
| 445047 | TRAILER | SCM Twin | 745047 | TRACTOR | Tandem - Tractor | 08/26/2014 09:30 | 08/26/2014 12:30 |
| 746506 | BODY JOB | Baby Bulker | | | | 08/26/2014 09:30 | 08/26/2014 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> |
|-------------------|--------------------|------------------|---------------------------|-------------------------|
| Lopez, Armando | 08/26/2014 09:30 | 08/26/2014 12:30 | | |
| Prigmore, Dominic | 08/26/2014 09:30 | 08/26/2014 12:30 | | |
| Cheal, Samuel | 08/26/2014 09:30 | 08/26/2014 12:30 | | |
| Gibson, Bruce | 08/26/2014 09:30 | 08/26/2014 12:30 | | |

Treatment Reports & Remarks



**Pumping
Service Report**

9193310

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 | Aug 26,2014 09:30 | Arrive On Location Remarks: arrived on location | --- | -- | -- | -- | -- | 0.00 |
| 2 | Aug 26,2014 09:35 | Tailgate Meeting Remarks: discussed rig in and spotting pump and bulk truck | --- | -- | -- | -- | -- | 0.00 |
| 3 | Aug 26,2014 09:40 | Rig In Remarks: rigged pump and iron | --- | -- | -- | -- | -- | 0.00 |
| 4 | Aug 26,2014 11:00 | Sign-off on Safety Remarks: signed jsa | --- | -- | -- | -- | -- | 0.00 |
| 5 | Aug 26,2014 11:05 | Safety Meeting Remarks: Held safety meeting | --- | -- | -- | -- | -- | 0.00 |
| 6 | Aug 26,2014 11:12 | Start - Fluid Remarks: filled lines | Water | 1.00 | 200.0 | -- | 1.00 | 0.00 |
| 7 | Aug 26,2014 11:14 | Pressure Test Remarks: pressure tested our lines | Water | -- | 2,600.0 | -- | -- | 0.00 |
| 8 | Aug 26,2014 11:18 | Pump Spacer Remarks: pumped 2 bbl spacer per company man | Water | 1.50 | 100.0 | -- | 2.00 | 0.00 |
| 9 | Aug 26,2014 11:21 | Mix Cement Remarks: pumped 5 bbls of slurry | Control Set C | 1.00 | 100.0 | -- | 5.00 | 0.00 |
| 10 | Aug 26,2014 11:25 | Stop Remarks: stung into retainer | --- | -- | -- | -- | -- | 0.00 |
| 11 | Aug 26,2014 11:26 | Mix Cement Remarks: pumped remaining slurry @ 13.5 | Control Set C | 0.50 | 250.0 | -- | 10.50 | 0.00 |
| 12 | Aug 26,2014 11:50 | Displace Fluid Remarks: displaced fresh water | Water | 0.50 | 500.0 | -- | 6.00 | 0.00 |
| 13 | Aug 26,2014 12:15 | Stop Remarks: stopped | --- | -- | -- | -- | -- | 0.00 |
| 14 | Aug 26,2014 12:20 | Wash Remarks: washed pump | Water | 1.00 | 20.0 | -- | 15.00 | 0.00 |
| 15 | Aug 26,2014 12:25 | Rig Out Remarks: rigged out | --- | -- | -- | -- | -- | 0.00 |
| 16 | Aug 26,2014 12:45 | Pre-Departure Meeting Remarks: discussed route and location | --- | -- | -- | -- | -- | 0.00 |
| 17 | Aug 26,2014 13:00 | Job Complete Remarks: job complete | --- | -- | -- | -- | -- | 0.00 |
| 18 | Aug 26,2014 13:25 | Leave Location Remarks: leave location | --- | -- | -- | -- | -- | 0.00 |



**Pumping
Service Report**

9198007

| | | | | |
|---|--|---------------------------------|-------------------------------|-----------------------|
| Client Name Anadarko Petroleum Corporation | Well Name State 8-16 | Rig Ensign Drilling Inc. 328 | Job Date August 22, 2014 | Call Sheet 1045989 |
| Client Representative Rigo Vierra | Surface Well Location NE SW Sec 16:T1N:R68W | 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) |
| 4.500 | 11.600 | J-55 | 4,960.0 | 5,350.0 | 24.09 | 4.000 | 5.000 | 0.0 | 1,550.0 |

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 | 5.990 | 1.995 | 2.910 | 0.000 | 1,550.000 |

Products

Plug 1

From Depth (ft): 1228

To Depth (ft): 1550

Plug Type : Abandonment

Acids/Blends/Fluids :

Tail: 25 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 5 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 75 , Slurry Temperature(°F) = 94

+ 1 % of CaCl₂ (Preblend)

Fluid & Cement Data

Expected Cement Top: Depth (ft): 1228

Wellbore Fluid

| Fluid Type | Viscosity (cP) | Density (lbs/gal) | Yield Point (psi) | Temperature (°F) | Recorded@ |
|------------|----------------|-------------------|-------------------|------------------|--------------------|
| Water | -- | 8.400 | -- | -- | Aug 01, 2014 10:36 |



**Pumping
Service Report**

9198007

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> |
|-----------------------|------------------|-----------------|-------------------------|------------------|------------------|-------------------------|--------------------------|
| 201025 | PICKUP | 1 Ton | 449087 | TRAILER | Utility Trailer | 08/22/2014 13:30 | 08/22/2014 15:30 |
| 445070 | TRAILER | SCM Twin | 745070 | TRACTOR | Tandem - Tractor | 08/22/2014 13:30 | 08/22/2014 15:30 |
| 746502 | BODY JOB | Baby Bulker | | | | 08/22/2014 13:30 | 08/22/2014 15:30 |

Crew and Bonuses

| <u>Employee</u> | <u>Start Shift</u> | <u>End Shift</u> | <u>Second Start Shift</u> | <u>Second End Shift</u> |
|--------------------|--------------------|------------------|---------------------------|-------------------------|
| Schneider, Patrick | 08/22/2014 13:30 | 08/22/2014 15:30 | | |
| Young, Craig | 08/22/2014 13:30 | 08/22/2014 15:30 | | |
| Phillips, James | 08/22/2014 13:30 | 08/22/2014 15:30 | | |
| Teegerstrom, Ty | 08/22/2014 13:30 | 08/22/2014 15:30 | | |

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 | Aug 22, 2014 13:15 | Arrive On Location | | -- | -- | -- | -- | 0.00 |
| 2 | Aug 22, 2014 13:20 | Tailgate Meeting | | -- | -- | -- | -- | 0.00 |
| 3 | Aug 22, 2014 13:30 | Rig In | | -- | -- | -- | -- | 0.00 |
| 4 | Aug 22, 2014 13:45 | Safety Meeting | | -- | -- | -- | -- | 0.00 |
| 5 | Aug 22, 2014 14:10 | Sign-off on Safety | | -- | -- | -- | -- | 0.00 |
| 6 | Aug 22, 2014 14:19 | Establish Circulation | Water | 2.00 | 150.0 | -- | 2.00 | 2.00 |
| 7 | Aug 22, 2014 14:21 | Pressure Test | Water | -- | 1,500.0 | -- | -- | 2.00 |
| | | Remarks: good pressure test | | | | | | |
| 8 | Aug 22, 2014 14:23 | Batch Mix | 0-1-0 G | -- | -- | -- | -- | 2.00 |
| | | Remarks: batched up 25 sks @ 15.8 ppg | | | | | | |
| 9 | Aug 22, 2014 14:38 | Pump | 0-1-0 G | 2.00 | 150.0 | -- | 5.00 | 7.00 |
| | | Remarks: plug cement @ 15.8 ppg yield = 1.15 h2o req = 4.98 | | | | | | |
| 10 | Aug 22, 2014 14:40 | Displace Fluid | Water | 2.00 | 25.0 | -- | 4.50 | 11.50 |
| | | Remarks: displaced to balance | | | | | | |
| 11 | Aug 22, 2014 14:42 | Balance Plug | Water | -- | 0.0 | -- | -- | 11.50 |
| 12 | Aug 22, 2014 14:45 | Rig Out | | -- | -- | -- | -- | 0.00 |
| 13 | Aug 22, 2014 15:00 | Job Complete | | -- | -- | -- | -- | 0.00 |
| 14 | Aug 22, 2014 15:15 | Pre-Departure Meeting | | -- | -- | -- | -- | 0.00 |
| 15 | Aug 22, 2014 15:30 | Leave Location | | -- | -- | -- | -- | 0.00 |

Did Float Hold: Not Applicable

Fluid Returns : Not Expected

Type :

Volume (bbl) :

Temperature (°F) : --

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes