



**Pumping  
Service Report**

**9189464**

|   |   |                                 |                                |                       |
|---|---|---------------------------------|--------------------------------|-----------------------|
| Client Name<br>Anadarko Petroleum Corporation | Well Name<br>UPRR 21 PanAm L #1               | Rig<br>Ensign Drilling Inc. 316 | Job Date<br>August 13, 2014    | Call Sheet<br>1045509 |
| Client Representative<br>Mr Edgar Chavez      | Surface Well Location<br>NW NE Sec 9:T3N:R66W | Down Hole Well Location         | Job Type<br>Bradenhead 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)     |
| 5.500 | 17.000  | J-55  | 4,910.0           | 5,320.0                 | 118.03   | 4.892 | 6.050 | 0.0        | 5,077.0  |

**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         | 19.310   | 1.995 | 2.910 | 0.000      | 4,995.000 |

**Products**

**Plug 1**

From Depth (ft): 4400

To Depth (ft): 5077

Plug Type : Well Stability

Acids/Blends/Fluids :

Tail: 370 Sacks of 1-1-0 G, Density = 14.6 lb/gal, Volume Pumped = 73.8 (bbl)

Water Temperature(°F) = 60 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 89

+ 0.6 % of CFL-2,

+ 0.5 % of CFR,

+ 0.3 % of LTR,

+ 0.6 % of SMS,

+ 0.2 % of SPC-2

**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 04, 2014 16:35 |



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**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> |
|-----------------------|------------------|-----------------|-------------------------|------------------|---------------------|-------------------------|--------------------------|
| 200868                | PICKUP           | 3/4 Ton         |                         |                  |                     | 08/13/2014 08:30        | 08/13/2014 15:15         |
| 445047                | TRAILER          | SCM Twin        | 745047                  | TRACTOR          | Tandem -<br>Tractor | 08/13/2014 08:30        | 08/13/2014 15:15         |
| 446173                | TRAILER          | Bulker          | 746173                  | TRACTOR          | Tandem -<br>Tractor | 08/13/2014 08:30        | 08/13/2014 15:15         |

**Crew and Bonuses**

| <u>Employee</u>   | <u>Start Shift</u> | <u>End Shift</u> | <u>Second Start Shift</u> | <u>Second End Shift</u> |
|-------------------|--------------------|------------------|---------------------------|-------------------------|
| Contreras, Bennie | 08/13/2014 08:30   | 08/13/2014 15:15 |                           |                         |
| Doran, Benjamin   | 08/13/2014 08:30   | 08/13/2014 15:15 |                           |                         |
| Wright, Isaac     | 08/13/2014 08:30   | 08/13/2014 15:15 |                           |                         |

**Treatment Reports & Remarks**



**Pumping  
Service Report**

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**Treatment Report**

| Event # | Event Time        | Event Description  | Fluid Type | Rate<br>(bbl/min) | Tubular Pressure<br>(psi) | Annular Pressure<br>(psi) | Stage Volume<br>(bbl) | Total Volume<br>(bbl) |
|---------|-------------------|--|------------|-------------------|---------------------------|---------------------------|-----------------------|-----------------------|
| 1       | Aug 13,2014 08:30 | Arrive On Location   | ---        | --                | --                        | --                        | --                    | 0.00                  |
|         |                   | Remarks: Arrived.  |            |                   |                           |                           |                       |                       |
| 2       | Aug 13,2014 08:40 | Tailgate Meeting   | ---        | --                | --                        | --                        | --                    | 0.00                  |
|         |                   | Remarks: Talked about spotting trucks and rig in.  |            |                   |                           |                           |                       |                       |
| 3       | Aug 13,2014 08:50 | Rig In   | ---        | --                | --                        | --                        | --                    | 0.00                  |
|         |                   | Remarks: Rigged in.  |            |                   |                           |                           |                       |                       |
| 4       | Aug 13,2014 09:05 | Safety Meeting   | ---        | --                | --                        | --                        | --                    | 0.00                  |
|         |                   | Remarks: Muster, 911 caller, location safety equipt., nearest med., ambulance driver,job scope.      |            |                   |                           |                           |                       |                       |
| 5       | Aug 13,2014 09:30 | Sign-off on Safety   | ---        | --                | --                        | --                        | --                    | 0.00                  |
|         |                   | Remarks: Sign all JSAs.  |            |                   |                           |                           |                       |                       |
| 6       | Aug 13,2014 09:42 | Pressure Test  | Water      | --                | 3,000.0                   | --                        | --                    | 0.00                  |
|         |                   | Remarks: Pressure test 3000 psi.   |            |                   |                           |                           |                       |                       |
| 7       | Aug 13,2014 09:44 | Establish Circulation  | Water      | --                | --                        | --                        | --                    | 0.00                  |
|         |                   | Remarks: Could not get rate kept tripping out, Try 7 times to get into it. Set retainer below perms. |            |                   |                           |                           |                       |                       |
| 8       | Aug 13,2014 09:45 | Stop   | ---        | --                | --                        | --                        | --                    | 0.00                  |
|         |                   | Remarks: Stop and wait for rig to reset retainer.  |            |                   |                           |                           |                       |                       |
| 9       | Aug 13,2014 13:06 | Establish Circulation  | Water      | 2.00              | 500.0                     | --                        | 5.00                  | 5.00                  |
|         |                   | Remarks: Establish rate 5 BBLs ahead.  |            |                   |                           |                           |                       |                       |
| 10      | Aug 13,2014 13:07 | Mix Cement   | 1-1-0 G    | 1.80              | 800.0                     | --                        | 73.80                 | 78.80                 |
|         |                   | Remarks: Mix and pump 73.8 BBLs cement @ 14.6 lb/gal..   |            |                   |                           |                           |                       |                       |
| 11      | Aug 13,2014 13:49 | Displace Fluid   | Water      | 1.80              | 1,000.0                   | --                        | 18.30                 | 97.10                 |
|         |                   | Remarks: Displace 18.3 BBLs water.   |            |                   |                           |                           |                       |                       |
| 12      | Aug 13,2014 13:59 | Stop   | ---        | --                | 500.0                     | --                        | --                    | 97.10                 |
|         |                   | Remarks: Stop and hold pressure to sting out till pressure drops.                                    |            |                   |                           |                           |                       |                       |
| 13      | Aug 13,2014 14:05 | Wash   | Water      | 2.00              | 170.0                     | --                        | 20.00                 | 117.10                |
|         |                   | Remarks: Wash mix system and runbacks on triplexes.  |            |                   |                           |                           |                       |                       |
| 14      | Aug 13,2014 14:50 | Rig Out  | ---        | --                | --                        | --                        | --                    | 117.10                |
|         |                   | Remarks: Rig out.  |            |                   |                           |                           |                       |                       |
| 15      | Aug 13,2014 15:05 | Job Complete   | ---        | --                | --                        | --                        | --                    | 117.10                |
|         |                   | Remarks: Job complete.   |            |                   |                           |                           |                       |                       |
| 16      | Aug 13,2014 15:06 | Pre-Departure Meeting  | ---        | --                | --                        | --                        | --                    | 117.10                |
|         |                   | Remarks: Journey management.   |            |                   |                           |                           |                       |                       |
| 17      | Aug 13,2014 15:15 | Leave Location   | ---        | --                | --                        | --                        | --                    | 117.10                |
|         |                   | Remarks: Leave.  |            |                   |                           |                           |                       |                       |

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



**Pumping  
Service Report**

**9189465**

|   |   |                                 |                                |                       |
|---|---|---------------------------------|--------------------------------|-----------------------|
| Client Name<br>Anadarko Petroleum Corporation | Well Name<br>UPRR 21 PanAm L #1               | Rig<br>Ensign Drilling Inc. 316 | Job Date<br>August 14, 2014    | Call Sheet<br>1045575 |
| Client Representative<br>Mr Edgar Chavez      | Surface Well Location<br>NW NE Sec 9:T3N:R66W | Down Hole Well Location         | Job Type<br>Bradenhead 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)     |
| 5.500 | 15.500  | J-55  | 4,040.0           | 4,810.0                 | 35.94    | 4.950 | 6.050 | 0.0        | 1,510.0  |

**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         | 5.590    | 1.995 | 2.910 | 0.000      | 1,447.000 |

**Products**

**Plug 1**

From Depth (ft): 0

To Depth (ft): 1510

Plug Type : Well Stability

Acids/Blends/Fluids :

Tail: 310 Sacks of 0:1:0 Type III, Density = 14.8 lb/gal, Volume Pumped = 73.4 (bbl)

Water Temperature(°F) = 65 , Bulk Temperature(°F) = 70 , Slurry Temperature(°F) = 89

+ 0.5 % of CaCl<sub>2</sub>,

+ 0.3 % of CFR-2,

+ 0.3 % of CFL-3,

+ 0.25 lb/sack 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 04, 2014 16:35 |



**Pumping  
Service Report**

**9189465**

**Treatment Report**

| Event # | Event Time         | Event Description  | Fluid Type        | Rate<br>(bbl/min) | Tubular Pressure<br>(psi) | Annular Pressure<br>(psi) | Stage Volume<br>(bbl) | Total Volume<br>(bbl) |
|---------|--------------------|--|-------------------|-------------------|---------------------------|---------------------------|-----------------------|-----------------------|
| 1       | Aug 14, 2014 10:00 | Arrive On Location   | ---               | --                | --                        | --                        | --                    | 0.00                  |
|         |                    | Remarks: Arrived.  |                   |                   |                           |                           |                       |                       |
| 2       | Aug 14, 2014 10:10 | Tailgate Meeting   | ---               | --                | --                        | --                        | --                    | 0.00                  |
|         |                    | Remarks: Talked about spotting trucks and rigging in.                          |                   |                   |                           |                           |                       |                       |
| 3       | Aug 14, 2014 11:30 | Rig In   | ---               | --                | --                        | --                        | --                    | 0.00                  |
|         |                    | Remarks: Rig water and cement hoses to pump then pump to well head with iron.  |                   |                   |                           |                           |                       |                       |
| 4       | Aug 14, 2014 11:50 | Safety Meeting   | ---               | --                | --                        | --                        | --                    | 0.00                  |
|         |                    | Remarks: Muster, 911 caller, Nearest med., Location safety equipt., Job scope. |                   |                   |                           |                           |                       |                       |
| 5       | Aug 14, 2014 12:20 | Sign-off on Safety   | ---               | --                | --                        | --                        | --                    | 0.00                  |
|         |                    | Remarks: Sign all JSAS.  |                   |                   |                           |                           |                       |                       |
| 6       | Aug 14, 2014 12:30 | Pressure Test  | Water             | --                | 3,000.0                   | --                        | --                    | 0.00                  |
|         |                    | Remarks: Pressure test 3000 psi.   |                   |                   |                           |                           |                       |                       |
| 7       | Aug 14, 2014 12:32 | Establish Circulation  | Water             | 2.00              | 150.0                     | --                        | 5.00                  | 0.00                  |
|         |                    | Remarks: Establish rate 5 BBLs.  |                   |                   |                           |                           |                       |                       |
| 8       | Aug 14, 2014 12:34 | Mix Cement   | 0:1:0 Type<br>III | 2.00              | 550.0                     | --                        | 73.40                 | 0.00                  |
|         |                    | Remarks: Mix and pump 73.4 BBLs cement @ 14.8                                  |                   |                   |                           |                           |                       |                       |
| 9       | Aug 14, 2014 13:11 | Displace Fluid   | Water             | 2.00              | 700.0                     | --                        | 5.00                  | 0.00                  |
|         |                    | Remarks: Displace 5 BBLs water.  |                   |                   |                           |                           |                       |                       |
| 10      | Aug 14, 2014 13:14 | Stop   | ---               | --                | 550.0                     | --                        | --                    | 0.00                  |
|         |                    | Remarks: Stop, sting out till pressure drops then rig off well.                |                   |                   |                           |                           |                       |                       |
| 11      | Aug 14, 2014 13:15 | Wash   | Water             | 2.00              | 170.0                     | --                        | 20.00                 | 0.00                  |
|         |                    | Remarks: Wash mix tank and runbacks on triplexes.                              |                   |                   |                           |                           |                       |                       |
| 12      | Aug 14, 2014 13:50 | Rig Out  | ---               | --                | --                        | --                        | --                    | 0.00                  |
|         |                    | Remarks: Rig down iron.  |                   |                   |                           |                           |                       |                       |
| 13      | Aug 14, 2014 14:10 | Job Complete   | ---               | --                | --                        | --                        | --                    | 0.00                  |
|         |                    | Remarks: Job complete.   |                   |                   |                           |                           |                       |                       |
| 14      | Aug 14, 2014 14:11 | Pre-Departure Meeting  | ---               | --                | --                        | --                        | --                    | 0.00                  |
|         |                    | Remarks: Journey management.   |                   |                   |                           |                           |                       |                       |
| 15      | Aug 14, 2014 14:30 | Leave Location   | ---               | --                | --                        | --                        | --                    | 0.00                  |
|         |                    | Remarks: Leave.  |                   |                   |                           |                           |                       |                       |

Did Float Hold: Not Applicable

Fluid Returns : Yes

Type : Cement

Volume (bbl) : 5

Temperature (°F) : 98

FDAS Functioning Correctly : Yes

Was the Program Followed As Per Design? : Yes

**Material Transfer Sheet Number**

Material Transfer Sheet Number

46801

46498



# Pumping Service Report

9193305

|   |   |                                 |                               |                       |
|---|---|---------------------------------|-------------------------------|-----------------------|
| Client Name<br>Anadarko Petroleum Corporation | Well Name<br>UPRR 21 PanAm L #1               | Rig<br>Ensign Drilling Inc. 316 | Job Date<br>August 21, 2014   | Call Sheet<br>1045903 |
| Client Representative<br>Mr Edgar Chavez      | Surface Well Location<br>NW NE Sec 9:T3N:R66W | Down Hole Well Location         | Job Type<br>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)     |
| 5.500 | 17.000  | J-55  | 4,910.0           | 5,320.0                 | 118.33   | 4.892 | 6.050 | 0.0        | 5,090.0  |

## 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 | 0.000   | J-55  | --                | --       | --   | --   | 0.000      | 5,090.000 |

## Products

### Plug 1

From Depth (ft):

To Depth (ft):

Plug Type : Abandonment

Acids/Blends/Fluids :

Plug: 25 Sacks of 0-1-0 G, Density = 15.8 lb/gal, Volume Pumped = 5.1 (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      | --             | 8.400             | --                | --               | Aug 04, 2014 16:35 |

## Units & Personnel

### Units

| Truck Unit No. | Main Type | Sub Type    | Tractor Unit No. | Main Type | Sub Type | Time On Location | Time Off Location |
|----------------|-----------|-------------|------------------|-----------|----------|------------------|-------------------|
| 201274         | PICKUP    | 3/4 Ton     |                  |           |          | 08/21/2014 08:00 | 08/21/2014 10:30  |
| 740018         | BODY JOB  | C & A       |                  |           |          | 08/21/2014 08:00 | 08/21/2014 10:30  |
| 746506         | BODY JOB  | Baby Bulker |                  |           |          | 08/21/2014 08:00 | 08/21/2014 10:30  |

### Crew and Bonuses

| Employee          | Start Shift      | End Shift        | Second Start Shift | Second End Shift |
|-------------------|------------------|------------------|--------------------|------------------|
| Prigmore, Dominic | 08/21/2014 08:00 | 08/21/2014 10:30 |                    |                  |
| Laeger, Kacey     | 08/21/2014 08:00 | 08/21/2014 10:30 |                    |                  |
| Curtner, Jerry    | 08/21/2014 08:00 | 08/21/2014 10:30 |                    |                  |

Acidizing • Cementing • Coiled Tubing • Fracturing • Nitrogen

Canada • USA • International

Print Date: August 21, 2014  
Service Report: 9193305  
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**Pumping  
Service Report**

**9193305**

**Treatment Reports & Remarks**

**Treatment Report**

| Event #  | Event Time        | Event Description     | Fluid Type | Rate<br>(bbl/min) | Tubular Pressure<br>(psi) | Annular Pressure<br>(psi) | Stage Volume<br>(bbl) | Total Volume<br>(bbl) |
|--|-------------------|-----------------------|------------|-------------------|---------------------------|---------------------------|-----------------------|-----------------------|
| 1  | Aug 21,2014 08:00 | Arrive On Location    | ---        | --                | --                        | --                        | --                    | 0.00                  |
| 2  | Aug 21,2014 08:05 | Tailgate Meeting      | ---        | --                | --                        | --                        | --                    | 0.00                  |
| 3  | Aug 21,2014 08:10 | Rig In                | ---        | --                | --                        | --                        | --                    | 0.00                  |
| 4  | Aug 21,2014 09:17 | Sign-off on Safety    | ---        | --                | --                        | --                        | --                    | 0.00                  |
| 5  | Aug 21,2014 09:20 | Safety Meeting        | ---        | --                | --                        | --                        | --                    | 0.00                  |
| 6  | Aug 21,2014 09:30 | Start - Fluid         | Water      | 1.00              | 35.0                      | --                        | 1.00                  | 0.00                  |
| 7  | Aug 21,2014 09:33 | Pressure Test         | Water      | 1.00              | 2,000.0                   | --                        | 1.00                  | 0.00                  |
| 8  | Aug 21,2014 09:40 | Establish Circulation | Water      | 2.00              | 20.0                      | --                        | 3.00                  | 0.00                  |
| 9  | Aug 21,2014 09:45 | Mix Cement            | 0-1-0 G    | 1.75              | 23.0                      | --                        | 5.10                  | 0.00                  |
| 10   | Aug 21,2014 09:50 | Pump Displacement     | Water      | 1.50              | 18.0                      | --                        | 18.00                 | 0.00                  |
| 11   | Aug 21,2014 09:58 | Stop                  | ---        | --                | --                        | --                        | --                    | 0.00                  |
| Remarks: Rig pulled 10 joints of tubing                      |                   |                       |            |                   |                           |                           |                       |                       |
| 12   | Aug 21,2014 10:10 | Hold Pressure         | Water      | 2.00              | 500.0                     | --                        | 3.00                  | 0.00                  |
| Remarks: Held 500 psi for rig per company man                |                   |                       |            |                   |                           |                           |                       |                       |
| 13   | Aug 21,2014 10:15 | Wash                  | Water      | 2.00              | 22.0                      | --                        | 15.00                 | 0.00                  |
| 14   | Aug 21,2014 10:20 | Rig Out               | ---        | --                | --                        | --                        | --                    | 0.00                  |
| 15   | Aug 21,2014 10:40 | Pre-Departure Meeting | ---        | --                | --                        | --                        | --                    | 0.00                  |
| 16   | Aug 21,2014 10:45 | Job Complete          | ---        | --                | --                        | --                        | --                    | 0.00                  |
| 17   | Aug 21,2014 11:45 | Leave Location        | ---        | --                | --                        | --                        | --                    | 0.00                  |
| Remarks: Had problem printing chart, E Tech came out to help |                   |                       |            |                   |                           |                           |                       |                       |

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

**Material Transfer Sheet Number**

Material Transfer Sheet Number

46886

**Comments To Service Report**

Job went well. All equipment operated fine.