



# Cement Summary

Surface Casing Cement

|                                            |                               |                                              |  |                        |  |                                |                  |
|--------------------------------------------|-------------------------------|----------------------------------------------|--|------------------------|--|--------------------------------|------------------|
| Well Name<br>SALADO DRAW WE 14 FED P7 004H |                               | Lease<br>SD 14 FED P7                        |  | Field Name<br>JENNINGS |  | Business Unit<br>Mid-Continent |                  |
| Ground Elevation (ft)<br>3,165.00          | Original RKB (ft)<br>3,197.60 | Current RKB Elevation<br>3,197.60, 3/28/2016 |  |                        |  | Mud Line Elevation (ft)        | Water Depth (ft) |

| Original Hole                  |                                |                                      |                                          |
|--------------------------------|--------------------------------|--------------------------------------|------------------------------------------|
| Wellbore Name<br>Original Hole | Directional Type<br>Horizontal | Min Kick Off Depth (ftKB)<br>8,567.0 | Vertical Section Direction (*)<br>359.66 |
| Hole Size (in)                 | Act Top (ftKB)                 | Act Btm (ftKB)                       |                                          |
| 17 1/2                         | 32.6                           | 840.0                                |                                          |
| 12 1/4                         | 840.0                          | 4,567.0                              |                                          |
| 8 3/4                          | 4,567.0                        | 13,816.0                             |                                          |

|                             |      |       |          |              |    |  |  |
|-----------------------------|------|-------|----------|--------------|----|--|--|
| <typ>, <make> on <dtmstart> |      |       |          |              |    |  |  |
| Sub-Type                    |      |       |          | Install Date |    |  |  |
| Des                         | Make | Model | WP (psi) | Service      | SN |  |  |
|                             |      |       |          |              |    |  |  |

|                                 |              |                           |         |                      |            |                              |                  |                          |          |                       |                       |
|---------------------------------|--------------|---------------------------|---------|----------------------|------------|------------------------------|------------------|--------------------------|----------|-----------------------|-----------------------|
| Conductor, Planned?-N, 112ftKB  |              |                           |         |                      |            |                              |                  |                          |          |                       |                       |
| Casing Description<br>Conductor |              | Wellbore<br>Original Hole |         | Run Date<br>4/1/2016 |            | Set Depth (MD) (ftKB)<br>112 |                  | Stick Up (ftKB)<br>-38.0 |          | Set Tension (kips)    |                       |
| Centralizers                    |              |                           |         |                      |            | Scratchers                   |                  |                          |          |                       |                       |
| Jts                             | Item Des     |                           | OD (in) | ID (in)              | Wt (lb/ft) | Grade                        | Top Conn Sz (in) | Top Thread               | Len (ft) | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |
| 3                               | Casing Joint |                           | 20      | 19.125               | 169.00     | K-55                         |                  |                          | 74.00    | 38                    | 112                   |

| Surface, Planned?-N, 830ftKB  |                   |                           |         |                       |       |                              |            |                          |                       |                       |
|-------------------------------|-------------------|---------------------------|---------|-----------------------|-------|------------------------------|------------|--------------------------|-----------------------|-----------------------|
| Casing Description<br>Surface |                   | Wellbore<br>Original Hole |         | Run Date<br>4/19/2016 |       | Set Depth (MD) (ftKB)<br>830 |            | Stick Up (ftKB)<br>-34.1 |                       | Set Tension (kips)    |
| Centralizers<br>9             |                   |                           |         |                       |       | Scratchers                   |            |                          |                       |                       |
| Jts                           | Item Des          | OD (in)                   | ID (in) | Wt (lb/ft)            | Grade | Top Conn Sz (in)             | Top Thread | Len (ft)                 | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |
| 1                             | FMC UH-2 Wellhead | 19                        | 12.615  | 54.50                 | J-55  |                              | ST&C       | 2.88                     | 34                    | 37                    |
| 1                             | Casing Pup Joint  | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 4.05                     | 37                    | 41                    |
| 18                            | Casing Joint      | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 743.61                   | 41                    | 785                   |
| 1                             | Float Collar      | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 1.50                     | 785                   | 786                   |
| 1                             | Casing Joint      | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 42.02                    | 786                   | 828                   |
| 1                             | Shoe              | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 1.80                     | 828                   | 830                   |

| Intermediate Casing 1, Planned?-N, 4,557ftKB |                  |                           |         |                      |        |                                |            |                          |                       |                       |
|----------------------------------------------|------------------|---------------------------|---------|----------------------|--------|--------------------------------|------------|--------------------------|-----------------------|-----------------------|
| Casing Description<br>Intermediate Casing 1  |                  | Wellbore<br>Original Hole |         | Run Date<br>5/6/2016 |        | Set Depth (MD) (ftKB)<br>4,557 |            | Stick Up (ftKB)<br>-34.3 |                       | Set Tension (kips)    |
| Centralizers<br>29                           |                  |                           |         |                      |        | Scratchers                     |            |                          |                       |                       |
| Jts                                          | Item Des         | OD (in)                   | ID (in) | Wt (lb/ft)           | Grade  | Top Conn Sz (in)               | Top Thread | Len (ft)                 | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |
| 1                                            | Wellhead Joint   | 9 5/8                     | 8.835   |                      |        |                                | LT&C       | 1.20                     | 34                    | 35                    |
| 3                                            | Casing Pup Joint | 9 5/8                     | 8.835   | 40.00                | HCK-55 |                                | LT&C       | 19.65                    | 35                    | 55                    |
| 106                                          | Casing Joint     | 9 5/8                     | 8.835   | 40.00                | HCK-55 |                                | LT&C       | 4,414.09                 | 55                    | 4,469                 |
| 1                                            | Float Collar     | 9 5/8                     | 8.835   |                      |        |                                | LT&C       | 1.49                     | 4,469                 | 4,471                 |
| 2                                            | Casing Joint     | 9 5/8                     | 8.835   | 40.00                | HCK-55 |                                | LT&C       | 84.64                    | 4,471                 | 4,555                 |
| 1                                            | Float Shoe       | 9 5/8                     | 8.835   |                      |        |                                | LT&C       | 1.64                     | 4,555                 | 4,557                 |

| Production Casing, Planned?-N, 13,800ftKB |                  |                           |         |                       |         |                                 |            |                          |                       |                       |
|-------------------------------------------|------------------|---------------------------|---------|-----------------------|---------|---------------------------------|------------|--------------------------|-----------------------|-----------------------|
| Casing Description<br>Production Casing   |                  | Wellbore<br>Original Hole |         | Run Date<br>5/15/2016 |         | Set Depth (MD) (ftKB)<br>13,800 |            | Stick Up (ftKB)<br>-32.2 |                       | Set Tension (kips)    |
| Centralizers<br>47                        |                  |                           |         |                       |         | Scratchers                      |            |                          |                       |                       |
| Jts                                       | Item Des         | OD (in)                   | ID (in) | Wt (lb/ft)            | Grade   | Top Conn Sz (in)                | Top Thread | Len (ft)                 | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |
| 1                                         | Casing Hanger    | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 1.14                     | 32                    | 33                    |
| 1                                         | Casing Pup Joint | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 4.21                     | 33                    | 38                    |
| 181                                       | Casing Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 7,502.02                 | 38                    | 7,540                 |
| 1                                         | Spacer Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 9.61                     | 7,540                 | 7,549                 |
| 24                                        | Casing Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 987.32                   | 7,549                 | 8,537                 |
| 1                                         | Marker Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 10.25                    | 8,537                 | 8,547                 |
| 123                                       | Casing Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 5,081.45                 | 8,547                 | 13,628                |





# Cement Summary

## Surface Casing Cement

|                                            |                               |                                              |  |                        |  |                                |                  |
|--------------------------------------------|-------------------------------|----------------------------------------------|--|------------------------|--|--------------------------------|------------------|
| Well Name<br>SALADO DRAW WE 14 FED P7 004H |                               | Lease<br>SD 14 FED P7                        |  | Field Name<br>JENNINGS |  | Business Unit<br>Mid-Continent |                  |
| Ground Elevation (ft)<br>3,165.00          | Original RKB (ft)<br>3,197.60 | Current RKB Elevation<br>3,197.60, 3/28/2016 |  |                        |  | Mud Line Elevation (ft)        | Water Depth (ft) |

| Jts | Item Des          | OD (in) | ID (in) | Wt (lb/ft) | Grade   | Top Conn Sz (in) | Top Thread | Len (ft) | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |
|-----|-------------------|---------|---------|------------|---------|------------------|------------|----------|-----------------------|-----------------------|
| 1   | Casing Pup Joint  | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 9.80     | 13,628                | 13,638                |
| 1   | RSI Toe Sleeve    | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 6.60     | 13,638                | 13,645                |
| 1   | Casing Pup Joint  | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 9.81     | 13,645                | 13,654                |
| 1   | Casing Joint      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 40.83    | 13,654                | 13,695                |
| 1   | Casing Pup Joint  | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 10.23    | 13,695                | 13,706                |
| 1   | Landing Collar    | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 1.42     | 13,706                | 13,707                |
| 1   | Casing Joint      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 42.87    | 13,707                | 13,750                |
| 1   | Float Collar      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 2.42     | 13,750                | 13,752                |
| 1   | XRV Vibrator Tool | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 2.22     | 13,752                | 13,754                |
| 1   | Casing Joint      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 42.88    | 13,754                | 13,797                |
| 1   | Float Shoe        | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 2.68     | 13,797                | 13,800                |

### Surface Casing Cement, Casing, 4/19/2016 11:30

|                                         |  |                                                      |  |                           |  |
|-----------------------------------------|--|------------------------------------------------------|--|---------------------------|--|
| Cementing Start Date<br>4/19/2016       |  | Cementing End Date<br>4/19/2016                      |  | Wellbore<br>Original Hole |  |
| Evaluation Method<br>Returns to Surface |  | Cement Evaluation Results<br>110 bbls cmt to surface |  |                           |  |

#### Comment

Performed cement job as follows:  
 Pressure tested lines to 3500 psi.  
 Pump 40 bbls of Spacer at 8.3 ppg.  
 Mix and pump 960 sxs (227 bbls) of Cement at 14.8 ppg.  
 Drop plug and displace cement with 121 bbls of 8.3 ppg Fresh Water.  
 Bumped plug with 534 psi over final circulating pressure.  
 Bled pressure off - floats held.

#### Details:

Full returns throughout job.  
 Final circulating pressure prior to bumping plug 350 psi at 2.1 bpm.  
 110 bbls of cement to surface.  
 Cement in place @ 13:15

### 1, 37.0-840.0ftKB

|                                    |                                  |                                  |                               |                                    |                                   |
|------------------------------------|----------------------------------|----------------------------------|-------------------------------|------------------------------------|-----------------------------------|
| Top Depth (ftKB)<br>37.0           | Bottom Depth (ftKB)<br>840.0     | Full Return?<br>Y                | Vol Cement Ret (bbl)<br>110.0 | Top Plug?<br>Y                     | Bottom Plug?<br>N                 |
| Initial Pump Rate (bbl/min)<br>5.6 | Final Pump Rate (bbl/min)<br>2.2 | Avg Pump Rate (bbl/min)<br>6     |                               | Final Pump Pressure (psi)<br>350.0 | Plug Bump Pressure (psi)<br>884.0 |
| Pipe Reciprocated?<br>N            | Reciprocation Stroke Length (ft) | Reciprocation Rate (spm)         |                               | Pipe Rotated?<br>N                 | Pipe RPM (rpm)                    |
| Depth Tagged (MD) (ftKB)           | Tag Method                       | Depth Plug Drilled Out To (ftKB) |                               | Drill Out Diameter (in)            | Drill Out Date                    |

### Spacer

|                      |                               |                           |                               |                                |
|----------------------|-------------------------------|---------------------------|-------------------------------|--------------------------------|
| Fluid Type<br>Spacer | Fluid Description             | Quantity (sacks)          | Class<br>C                    | Volume Pumped (bbl)<br>40.0    |
| Estimated Top (ftKB) | Estimated Bottom Depth (ftKB) | Percent Excess Pumped (%) | Yield (ft <sup>3</sup> /sack) | Fluid Mix Ratio (gal/sack)     |
| Free Water (%)       | Density (lb/gal)<br>8.33      | Zero Gel Time (min)       | Thickening Time (hr)          | 1st Compressive Strength (psi) |

### Cement Fluid Additives

| Add | Type | Conc |
|-----|------|------|
|     |      |      |

### Tail

|                              |                                        |                                    |                                       |                                    |
|------------------------------|----------------------------------------|------------------------------------|---------------------------------------|------------------------------------|
| Fluid Type<br>Tail           | Fluid Description                      | Quantity (sacks)<br>960            | Class<br>C                            | Volume Pumped (bbl)<br>227.0       |
| Estimated Top (ftKB)<br>32.6 | Estimated Bottom Depth (ftKB)<br>832.0 | Percent Excess Pumped (%)<br>125.0 | Yield (ft <sup>3</sup> /sack)<br>1.33 | Fluid Mix Ratio (gal/sack)<br>6.37 |
| Free Water (%)               | Density (lb/gal)<br>14.80              | Zero Gel Time (min)                | Thickening Time (hr)                  | 1st Compressive Strength (psi)     |





# Cement Summary

Surface Casing Cement

|                                            |                               |                                              |                        |                                |                  |
|--------------------------------------------|-------------------------------|----------------------------------------------|------------------------|--------------------------------|------------------|
| Well Name<br>SALADO DRAW WE 14 FED P7 004H |                               | Lease<br>SD 14 FED P7                        | Field Name<br>JENNINGS | Business Unit<br>Mid-Continent |                  |
| Ground Elevation (ft)<br>3,165.00          | Original RKB (ft)<br>3,197.60 | Current RKB Elevation<br>3,197.60, 3/28/2016 |                        | Mud Line Elevation (ft)        | Water Depth (ft) |

| Cement Fluid Additives |      |      |
|------------------------|------|------|
| Add                    | Type | Conc |
|                        |      |      |

| Displacement               |                               |                           |                               |                                |
|----------------------------|-------------------------------|---------------------------|-------------------------------|--------------------------------|
| Fluid Type<br>Displacement | Fluid Description             | Quantity (sacks)          | Class                         | Volume Pumped (bbl)<br>120.0   |
| Estimated Top (ftKB)       | Estimated Bottom Depth (ftKB) | Percent Excess Pumped (%) | Yield (ft <sup>3</sup> /sack) | Fluid Mix Ratio (gal/sack)     |
| Free Water (%)             | Density (lb/gal)<br>8.33      | Zero Gel Time (min)       | Thickening Time (hr)          | 1st Compressive Strength (psi) |

| Cement Fluid Additives |      |      |
|------------------------|------|------|
| Add                    | Type | Conc |
|                        |      |      |





# Cement Summary

Intermediate Casing Cement

|                                            |                               |                                              |  |                        |  |                                |                  |
|--------------------------------------------|-------------------------------|----------------------------------------------|--|------------------------|--|--------------------------------|------------------|
| Well Name<br>SALADO DRAW WE 14 FED P7 004H |                               | Lease<br>SD 14 FED P7                        |  | Field Name<br>JENNINGS |  | Business Unit<br>Mid-Continent |                  |
| Ground Elevation (ft)<br>3,165.00          | Original RKB (ft)<br>3,197.60 | Current RKB Elevation<br>3,197.60, 3/28/2016 |  |                        |  | Mud Line Elevation (ft)        | Water Depth (ft) |

## Original Hole

|                                |  |                                |  |                                      |                |                                          |  |
|--------------------------------|--|--------------------------------|--|--------------------------------------|----------------|------------------------------------------|--|
| Wellbore Name<br>Original Hole |  | Directional Type<br>Horizontal |  | Min Kick Off Depth (ftKB)<br>8,567.0 |                | Vertical Section Direction (*)<br>359.66 |  |
| Hole Size (in)                 |  | Act Top (ftKB)                 |  |                                      | Act Btm (ftKB) |                                          |  |
| 17 1/2                         |  | 32.6                           |  |                                      | 840.0          |                                          |  |
| 12 1/4                         |  | 840.0                          |  |                                      | 4,567.0        |                                          |  |
| 8 3/4                          |  | 4,567.0                        |  |                                      | 13,816.0       |                                          |  |

<typ>, <make> on <dtmstart>

|          |      |       |              |         |    |  |  |
|----------|------|-------|--------------|---------|----|--|--|
| Sub-Type |      |       | Install Date |         |    |  |  |
| Des      | Make | Model | WP (psi)     | Service | SN |  |  |
|          |      |       |              |         |    |  |  |

## Conductor, Planned?-N, 112ftKB

|                                 |              |                           |         |                      |       |                              |            |                          |                       |                       |  |
|---------------------------------|--------------|---------------------------|---------|----------------------|-------|------------------------------|------------|--------------------------|-----------------------|-----------------------|--|
| Casing Description<br>Conductor |              | Wellbore<br>Original Hole |         | Run Date<br>4/1/2016 |       | Set Depth (MD) (ftKB)<br>112 |            | Stick Up (ftKB)<br>-38.0 |                       | Set Tension (kips)    |  |
| Centralizers                    |              |                           |         |                      |       | Scratchers                   |            |                          |                       |                       |  |
| Jts                             | Item Des     | OD (in)                   | ID (in) | Wt (lb/ft)           | Grade | Top Conn Sz (in)             | Top Thread | Len (ft)                 | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |  |
| 3                               | Casing Joint | 20                        | 19.125  | 169.00               | K-55  |                              |            | 74.00                    | 38                    | 112                   |  |

## Surface, Planned?-N, 830ftKB

|                               |                   |                           |         |                       |       |                              |            |                          |                          |                          |  |
|-------------------------------|-------------------|---------------------------|---------|-----------------------|-------|------------------------------|------------|--------------------------|--------------------------|--------------------------|--|
| Casing Description<br>Surface |                   | Wellbore<br>Original Hole |         | Run Date<br>4/19/2016 |       | Set Depth (MD) (ftKB)<br>830 |            | Stick Up (ftKB)<br>-34.1 |                          | Set Tension (kips)       |  |
| Centralizers<br>9             |                   |                           |         |                       |       | Scratchers                   |            |                          |                          |                          |  |
| Jts                           | Item Des          | OD (in)                   | ID (in) | Wt (lb/ft)            | Grade | Top Conn Sz<br>(in)          | Top Thread | Len (ft)                 | Top Depth (MD)<br>(ftKB) | Btm Depth (MD)<br>(ftKB) |  |
| 1                             | FMC UH-2 Wellhead | 19                        | 12.615  | 54.50                 | J-55  |                              | ST&C       | 2.88                     | 34                       | 37                       |  |
| 1                             | Casing Pup Joint  | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 4.05                     | 37                       | 41                       |  |
| 18                            | Casing Joint      | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 743.61                   | 41                       | 785                      |  |
| 1                             | Float Collar      | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 1.50                     | 785                      | 786                      |  |
| 1                             | Casing Joint      | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 42.02                    | 786                      | 828                      |  |
| 1                             | Shoe              | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 1.80                     | 828                      | 830                      |  |

## Intermediate Casing 1, Planned?-N, 4,557ftKB

|                                             |                  |                           |         |                      |        |                                |            |                          |                          |                          |  |
|---------------------------------------------|------------------|---------------------------|---------|----------------------|--------|--------------------------------|------------|--------------------------|--------------------------|--------------------------|--|
| Casing Description<br>Intermediate Casing 1 |                  | Wellbore<br>Original Hole |         | Run Date<br>5/6/2016 |        | Set Depth (MD) (ftKB)<br>4,557 |            | Stick Up (ftKB)<br>-34.3 |                          | Set Tension (kips)       |  |
| Centralizers<br>29                          |                  |                           |         |                      |        | Scratchers                     |            |                          |                          |                          |  |
| Jts                                         | Item Des         | OD (in)                   | ID (in) | Wt (lb/ft)           | Grade  | Top Conn Sz<br>(in)            | Top Thread | Len (ft)                 | Top Depth (MD)<br>(ftKB) | Btm Depth (MD)<br>(ftKB) |  |
| 1                                           | Wellhead Joint   | 9 5/8                     | 8.835   |                      |        |                                | LT&C       | 1.20                     | 34                       | 35                       |  |
| 3                                           | Casing Pup Joint | 9 5/8                     | 8.835   | 40.00                | HCK-55 |                                | LT&C       | 19.65                    | 35                       | 55                       |  |
| 106                                         | Casing Joint     | 9 5/8                     | 8.835   | 40.00                | HCK-55 |                                | LT&C       | 4,414.09                 | 55                       | 4,469                    |  |
| 1                                           | Float Collar     | 9 5/8                     | 8.835   |                      |        |                                | LT&C       | 1.49                     | 4,469                    | 4,471                    |  |
| 2                                           | Casing Joint     | 9 5/8                     | 8.835   | 40.00                | HCK-55 |                                | LT&C       | 84.64                    | 4,471                    | 4,555                    |  |
| 1                                           | Float Shoe       | 9 5/8                     | 8.835   |                      |        |                                | LT&C       | 1.64                     | 4,555                    | 4,557                    |  |

## Production Casing, Planned?-N, 13,800ftKB

|                                         |                  |                           |         |                       |         |                                 |            |                          |                       |                       |  |
|-----------------------------------------|------------------|---------------------------|---------|-----------------------|---------|---------------------------------|------------|--------------------------|-----------------------|-----------------------|--|
| Casing Description<br>Production Casing |                  | Wellbore<br>Original Hole |         | Run Date<br>5/15/2016 |         | Set Depth (MD) (ftKB)<br>13,800 |            | Stick Up (ftKB)<br>-32.2 |                       | Set Tension (kips)    |  |
| Centralizers<br>47                      |                  |                           |         |                       |         | Scratchers                      |            |                          |                       |                       |  |
| Jts                                     | Item Des         | OD (in)                   | ID (in) | Wt (lb/ft)            | Grade   | Top Conn Sz (in)                | Top Thread | Len (ft)                 | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |  |
| 1                                       | Casing Hanger    | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 1.14                     | 32                    | 33                    |  |
| 1                                       | Casing Pup Joint | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 4.21                     | 33                    | 38                    |  |
| 181                                     | Casing Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 7,502.02                 | 38                    | 7,540                 |  |
| 1                                       | Spacer Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 9.61                     | 7,540                 | 7,549                 |  |
| 24                                      | Casing Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 987.32                   | 7,549                 | 8,537                 |  |
| 1                                       | Marker Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 10.25                    | 8,537                 | 8,547                 |  |
| 123                                     | Casing Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 5,081.45                 | 8,547                 | 13,628                |  |





# Cement Summary

Intermediate Casing Cement

|                                            |                               |                                              |                        |                                |                  |
|--------------------------------------------|-------------------------------|----------------------------------------------|------------------------|--------------------------------|------------------|
| Well Name<br>SALADO DRAW WE 14 FED P7 004H |                               | Lease<br>SD 14 FED P7                        | Field Name<br>JENNINGS | Business Unit<br>Mid-Continent |                  |
| Ground Elevation (ft)<br>3,165.00          | Original RKB (ft)<br>3,197.60 | Current RKB Elevation<br>3,197.60, 3/28/2016 |                        | Mud Line Elevation (ft)        | Water Depth (ft) |

| Jts | Item Des          | OD (in) | ID (in) | Wt (lb/ft) | Grade   | Top Conn Sz (in) | Top Thread | Len (ft) | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |
|-----|-------------------|---------|---------|------------|---------|------------------|------------|----------|-----------------------|-----------------------|
| 1   | Casing Pup Joint  | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 9.80     | 13,628                | 13,638                |
| 1   | RSI Toe Sleeve    | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 6.60     | 13,638                | 13,645                |
| 1   | Casing Pup Joint  | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 9.81     | 13,645                | 13,654                |
| 1   | Casing Joint      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 40.83    | 13,654                | 13,695                |
| 1   | Casing Pup Joint  | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 10.23    | 13,695                | 13,706                |
| 1   | Landing Collar    | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 1.42     | 13,706                | 13,707                |
| 1   | Casing Joint      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 42.87    | 13,707                | 13,750                |
| 1   | Float Collar      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 2.42     | 13,750                | 13,752                |
| 1   | XRV Vibrator Tool | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 2.22     | 13,752                | 13,754                |
| 1   | Casing Joint      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 42.88    | 13,754                | 13,797                |
| 1   | Float Shoe        | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 2.68     | 13,797                | 13,800                |

## Intermediate Casing Cement, Casing, 5/6/2016 21:21

|                                         |  |                                                      |  |                           |  |
|-----------------------------------------|--|------------------------------------------------------|--|---------------------------|--|
| Cementing Start Date<br>5/6/2016        |  | Cementing End Date<br>5/7/2016                       |  | Wellbore<br>Original Hole |  |
| Evaluation Method<br>Returns to Surface |  | Cement Evaluation Results<br>190 bbls cmt to surface |  |                           |  |
| Comment                                 |  |                                                      |  |                           |  |

## 1, 37.0-4,567.0ftKB

|                                    |                                  |                                  |                               |                           |                   |
|------------------------------------|----------------------------------|----------------------------------|-------------------------------|---------------------------|-------------------|
| Top Depth (ftKB)<br>37.0           | Bottom Depth (ftKB)<br>4,567.0   | Full Return?<br>Y                | Vol Cement Ret (bbl)<br>190.0 | Top Plug?<br>Y            | Bottom Plug?<br>N |
| Initial Pump Rate (bbl/min)<br>4.7 | Final Pump Rate (bbl/min)<br>3.3 | Avg Pump Rate (bbl/min)<br>6.8   |                               | Final Pump Pressure (psi) |                   |
| Pipe Reciprocated?<br>N            | Reciprocation Stroke Length (ft) | Reciprocation Rate (spm)         |                               | Pipe Rotated?<br>N        | Pipe RPM (rpm)    |
| Depth Tagged (MD) (ftKB)           | Tag Method                       | Depth Plug Drilled Out To (ftKB) |                               | Drill Out Diameter (in)   | Drill Out Date    |

## Spacer

|                              |                                       |                           |                      |                                |
|------------------------------|---------------------------------------|---------------------------|----------------------|--------------------------------|
| Fluid Type<br>Spacer         | Fluid Description<br>Dyed Spacer      | Quantity (sacks)          | Class                | Volume Pumped (bbl)<br>40.0    |
| Estimated Top (ftKB)<br>32.6 | Estimated Bottom Depth (ftKB)<br>32.6 | Percent Excess Pumped (%) | Yield (ft³/sack)     | Fluid Mix Ratio (gal/sack)     |
| Free Water (%)               | Density (lb/gal)<br>8.30              | Zero Gel Time (min)       | Thickening Time (hr) | 1st Compressive Strength (psi) |

## Cement Fluid Additives

| Add | Type | Conc |
|-----|------|------|
|     |      |      |

## Lead

|                              |                                          |                                    |                          |                                     |
|------------------------------|------------------------------------------|------------------------------------|--------------------------|-------------------------------------|
| Fluid Type<br>Lead           | Fluid Description<br>50:50 POZ/C         | Quantity (sacks)<br>1,055          | Class<br>C               | Volume Pumped (bbl)<br>456.0        |
| Estimated Top (ftKB)<br>32.6 | Estimated Bottom Depth (ftKB)<br>3,567.0 | Percent Excess Pumped (%)<br>150.0 | Yield (ft³/sack)<br>2.43 | Fluid Mix Ratio (gal/sack)<br>13.77 |
| Free Water (%)               | Density (lb/gal)<br>11.90                | Zero Gel Time (min)                | Thickening Time (hr)     | 1st Compressive Strength (psi)      |

## Cement Fluid Additives

| Add | Type | Conc |
|-----|------|------|
|     |      |      |

## Tail

|                                 |                                          |                                   |                          |                                    |
|---------------------------------|------------------------------------------|-----------------------------------|--------------------------|------------------------------------|
| Fluid Type<br>Tail              | Fluid Description<br>C-Neat              | Quantity (sacks)<br>462           | Class<br>C               | Volume Pumped (bbl)<br>109.0       |
| Estimated Top (ftKB)<br>3,567.0 | Estimated Bottom Depth (ftKB)<br>4,567.0 | Percent Excess Pumped (%)<br>85.0 | Yield (ft³/sack)<br>1.33 | Fluid Mix Ratio (gal/sack)<br>6.35 |
| Free Water (%)                  | Density (lb/gal)<br>14.80                | Zero Gel Time (min)               | Thickening Time (hr)     | 1st Compressive Strength (psi)     |





# Cement Summary

Intermediate Casing Cement

|                                            |                               |                                              |                        |                                |                  |
|--------------------------------------------|-------------------------------|----------------------------------------------|------------------------|--------------------------------|------------------|
| Well Name<br>SALADO DRAW WE 14 FED P7 004H |                               | Lease<br>SD 14 FED P7                        | Field Name<br>JENNINGS | Business Unit<br>Mid-Continent |                  |
| Ground Elevation (ft)<br>3,165.00          | Original RKB (ft)<br>3,197.60 | Current RKB Elevation<br>3,197.60, 3/28/2016 |                        | Mud Line Elevation (ft)        | Water Depth (ft) |

## Cement Fluid Additives

| Add | Type | Conc |
|-----|------|------|
|     |      |      |

## Displacement

|                            |                                   |                           |                               |                                |
|----------------------------|-----------------------------------|---------------------------|-------------------------------|--------------------------------|
| Fluid Type<br>Displacement | Fluid Description<br>Displacement | Quantity (sacks)          | Class                         | Volume Pumped (bbl)<br>340.0   |
| Estimated Top (ftKB)       | Estimated Bottom Depth (ftKB)     | Percent Excess Pumped (%) | Yield (ft <sup>3</sup> /sack) | Fluid Mix Ratio (gal/sack)     |
| Free Water (%)             | Density (lb/gal)<br>8.30          | Zero Gel Time (min)       | Thickening Time (hr)          | 1st Compressive Strength (psi) |

## Cement Fluid Additives

| Add | Type | Conc |
|-----|------|------|
|     |      |      |





# Cement Summary

Production Casing Cement

|                                            |                               |                                              |  |                        |  |                                |                  |
|--------------------------------------------|-------------------------------|----------------------------------------------|--|------------------------|--|--------------------------------|------------------|
| Well Name<br>SALADO DRAW WE 14 FED P7 004H |                               | Lease<br>SD 14 FED P7                        |  | Field Name<br>JENNINGS |  | Business Unit<br>Mid-Continent |                  |
| Ground Elevation (ft)<br>3,165.00          | Original RKB (ft)<br>3,197.60 | Current RKB Elevation<br>3,197.60, 3/28/2016 |  |                        |  | Mud Line Elevation (ft)        | Water Depth (ft) |

## Original Hole

|                                |  |                                |  |                                      |                |                                          |  |
|--------------------------------|--|--------------------------------|--|--------------------------------------|----------------|------------------------------------------|--|
| Wellbore Name<br>Original Hole |  | Directional Type<br>Horizontal |  | Min Kick Off Depth (ftKB)<br>8,567.0 |                | Vertical Section Direction (°)<br>359.66 |  |
| Hole Size (in)                 |  | Act Top (ftKB)                 |  |                                      | Act Btm (ftKB) |                                          |  |
| 17 1/2                         |  | 32.6                           |  |                                      | 840.0          |                                          |  |
| 12 1/4                         |  | 840.0                          |  |                                      | 4,567.0        |                                          |  |
| 8 3/4                          |  | 4,567.0                        |  |                                      | 13,816.0       |                                          |  |

<typ>, <make> on <dtmstart>

|          |      |       |          |              |    |  |  |
|----------|------|-------|----------|--------------|----|--|--|
| Sub-Type |      |       |          | Install Date |    |  |  |
| Des      | Make | Model | WP (psi) | Service      | SN |  |  |
|          |      |       |          |              |    |  |  |

## Conductor, Planned?-N, 112ftKB

|                                 |              |                           |         |                      |       |                              |            |                          |                       |                       |  |
|---------------------------------|--------------|---------------------------|---------|----------------------|-------|------------------------------|------------|--------------------------|-----------------------|-----------------------|--|
| Casing Description<br>Conductor |              | Wellbore<br>Original Hole |         | Run Date<br>4/1/2016 |       | Set Depth (MD) (ftKB)<br>112 |            | Stick Up (ftKB)<br>-38.0 |                       | Set Tension (kips)    |  |
| Centralizers                    |              |                           |         |                      |       | Scratchers                   |            |                          |                       |                       |  |
| Jts                             | Item Des     | OD (in)                   | ID (in) | Wt (lb/ft)           | Grade | Top Conn Sz (in)             | Top Thread | Len (ft)                 | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |  |
| 3                               | Casing Joint | 20                        | 19.125  | 169.00               | K-55  |                              |            | 74.00                    | 38                    | 112                   |  |

## Surface, Planned?-N, 830ftKB

|                               |                   |                           |         |                       |       |                              |            |                          |                          |                          |  |
|-------------------------------|-------------------|---------------------------|---------|-----------------------|-------|------------------------------|------------|--------------------------|--------------------------|--------------------------|--|
| Casing Description<br>Surface |                   | Wellbore<br>Original Hole |         | Run Date<br>4/19/2016 |       | Set Depth (MD) (ftKB)<br>830 |            | Stick Up (ftKB)<br>-34.1 |                          | Set Tension (kips)       |  |
| Centralizers<br>9             |                   |                           |         |                       |       | Scratchers                   |            |                          |                          |                          |  |
| Jts                           | Item Des          | OD (in)                   | ID (in) | Wt (lb/ft)            | Grade | Top Conn Sz<br>(in)          | Top Thread | Len (ft)                 | Top Depth (MD)<br>(ftKB) | Btm Depth (MD)<br>(ftKB) |  |
| 1                             | FMC UH-2 Wellhead | 19                        | 12.615  | 54.50                 | J-55  |                              | ST&C       | 2.88                     | 34                       | 37                       |  |
| 1                             | Casing Pup Joint  | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 4.05                     | 37                       | 41                       |  |
| 18                            | Casing Joint      | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 743.61                   | 41                       | 785                      |  |
| 1                             | Float Collar      | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 1.50                     | 785                      | 786                      |  |
| 1                             | Casing Joint      | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 42.02                    | 786                      | 828                      |  |
| 1                             | Shoe              | 13 3/8                    | 12.615  | 54.50                 | J-55  |                              | ST&C       | 1.80                     | 828                      | 830                      |  |

## Intermediate Casing 1, Planned?-N, 4,557ftKB

|                                             |                  |                           |         |                      |        |                                |            |                          |                          |                          |  |
|---------------------------------------------|------------------|---------------------------|---------|----------------------|--------|--------------------------------|------------|--------------------------|--------------------------|--------------------------|--|
| Casing Description<br>Intermediate Casing 1 |                  | Wellbore<br>Original Hole |         | Run Date<br>5/6/2016 |        | Set Depth (MD) (ftKB)<br>4,557 |            | Stick Up (ftKB)<br>-34.3 |                          | Set Tension (kips)       |  |
| Centralizers<br>29                          |                  |                           |         |                      |        | Scratchers                     |            |                          |                          |                          |  |
| Jts                                         | Item Des         | OD (in)                   | ID (in) | Wt (lb/ft)           | Grade  | Top Conn Sz<br>(in)            | Top Thread | Len (ft)                 | Top Depth (MD)<br>(ftKB) | Btm Depth (MD)<br>(ftKB) |  |
| 1                                           | Wellhead Joint   | 9 5/8                     | 8.835   |                      |        |                                | LT&C       | 1.20                     | 34                       | 35                       |  |
| 3                                           | Casing Pup Joint | 9 5/8                     | 8.835   | 40.00                | HCK-55 |                                | LT&C       | 19.65                    | 35                       | 55                       |  |
| 106                                         | Casing Joint     | 9 5/8                     | 8.835   | 40.00                | HCK-55 |                                | LT&C       | 4,414.09                 | 55                       | 4,469                    |  |
| 1                                           | Float Collar     | 9 5/8                     | 8.835   |                      |        |                                | LT&C       | 1.49                     | 4,469                    | 4,471                    |  |
| 2                                           | Casing Joint     | 9 5/8                     | 8.835   | 40.00                | HCK-55 |                                | LT&C       | 84.64                    | 4,471                    | 4,555                    |  |
| 1                                           | Float Shoe       | 9 5/8                     | 8.835   |                      |        |                                | LT&C       | 1.64                     | 4,555                    | 4,557                    |  |

## Production Casing, Planned?-N, 13,800ftKB

|                                         |                  |                           |         |                       |         |                                 |            |                          |                       |                       |  |
|-----------------------------------------|------------------|---------------------------|---------|-----------------------|---------|---------------------------------|------------|--------------------------|-----------------------|-----------------------|--|
| Casing Description<br>Production Casing |                  | Wellbore<br>Original Hole |         | Run Date<br>5/15/2016 |         | Set Depth (MD) (ftKB)<br>13,800 |            | Stick Up (ftKB)<br>-32.2 |                       | Set Tension (kips)    |  |
| Centralizers<br>47                      |                  |                           |         |                       |         | Scratchers                      |            |                          |                       |                       |  |
| Jts                                     | Item Des         | OD (in)                   | ID (in) | Wt (lb/ft)            | Grade   | Top Conn Sz (in)                | Top Thread | Len (ft)                 | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |  |
| 1                                       | Casing Hanger    | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 1.14                     | 32                    | 33                    |  |
| 1                                       | Casing Pup Joint | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 4.21                     | 33                    | 38                    |  |
| 181                                     | Casing Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 7,502.02                 | 38                    | 7,540                 |  |
| 1                                       | Spacer Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 9.61                     | 7,540                 | 7,549                 |  |
| 24                                      | Casing Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 987.32                   | 7,549                 | 8,537                 |  |
| 1                                       | Marker Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 10.25                    | 8,537                 | 8,547                 |  |
| 123                                     | Casing Joint     | 5 1/2                     | 4.781   | 20.00                 | HCP-110 |                                 | TXP-BTC-S  | 5,081.45                 | 8,547                 | 13,628                |  |





# Cement Summary

Production Casing Cement

|                                            |                               |                                              |  |                        |  |                                |                  |
|--------------------------------------------|-------------------------------|----------------------------------------------|--|------------------------|--|--------------------------------|------------------|
| Well Name<br>SALADO DRAW WE 14 FED P7 004H |                               | Lease<br>SD 14 FED P7                        |  | Field Name<br>JENNINGS |  | Business Unit<br>Mid-Continent |                  |
| Ground Elevation (ft)<br>3,165.00          | Original RKB (ft)<br>3,197.60 | Current RKB Elevation<br>3,197.60, 3/28/2016 |  |                        |  | Mud Line Elevation (ft)        | Water Depth (ft) |

| Jts | Item Des          | OD (in) | ID (in) | Wt (lb/ft) | Grade   | Top Conn Sz (in) | Top Thread | Len (ft) | Top Depth (MD) (ftKB) | Btm Depth (MD) (ftKB) |
|-----|-------------------|---------|---------|------------|---------|------------------|------------|----------|-----------------------|-----------------------|
| 1   | Casing Pup Joint  | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 9.80     | 13,628                | 13,638                |
| 1   | RSI Toe Sleeve    | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 6.60     | 13,638                | 13,645                |
| 1   | Casing Pup Joint  | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 9.81     | 13,645                | 13,654                |
| 1   | Casing Joint      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 40.83    | 13,654                | 13,695                |
| 1   | Casing Pup Joint  | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 10.23    | 13,695                | 13,706                |
| 1   | Landing Collar    | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 1.42     | 13,706                | 13,707                |
| 1   | Casing Joint      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 42.87    | 13,707                | 13,750                |
| 1   | Float Collar      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 2.42     | 13,750                | 13,752                |
| 1   | XRV Vibrator Tool | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 2.22     | 13,752                | 13,754                |
| 1   | Casing Joint      | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 42.88    | 13,754                | 13,797                |
| 1   | Float Shoe        | 5 1/2   | 4.781   | 20.00      | HCP-110 |                  | TXP-BTC-S  | 2.68     | 13,797                | 13,800                |

## Production Casing Cement, Casing, 5/15/2016 10:30

|                                    |  |                                                                                        |  |                           |  |
|------------------------------------|--|----------------------------------------------------------------------------------------|--|---------------------------|--|
| Cementing Start Date<br>5/15/2016  |  | Cementing End Date<br>5/15/2016                                                        |  | Wellbore<br>Original Hole |  |
| Evaluation Method<br>Lift Pressure |  | Cement Evaluation Results<br>Actual final lift pressure exceeded design lift pressure. |  |                           |  |
| Comment                            |  |                                                                                        |  |                           |  |

## 1, 3,850.0-13,800.0ftKB

|                                    |                                  |                                  |                             |                                      |                                     |
|------------------------------------|----------------------------------|----------------------------------|-----------------------------|--------------------------------------|-------------------------------------|
| Top Depth (ftKB)<br>3,850.0        | Bottom Depth (ftKB)<br>13,800.0  | Full Return?<br>N                | Vol Cement Ret (bbl)<br>0.0 | Top Plug?<br>Y                       | Bottom Plug?<br>Y                   |
| Initial Pump Rate (bbl/min)<br>6.2 | Final Pump Rate (bbl/min)<br>3.4 | Avg Pump Rate (bbl/min)<br>6.5   |                             | Final Pump Pressure (psi)<br>1,964.0 | Plug Bump Pressure (psi)<br>2,500.0 |
| Pipe Reciprocated?<br>N            | Reciprocation Stroke Length (ft) | Reciprocation Rate (spm)         |                             | Pipe Rotated?<br>N                   | Pipe RPM (rpm)                      |
| Depth Tagged (MD) (ftKB)<br>13,707 | Tag Method                       | Depth Plug Drilled Out To (ftKB) |                             | Drill Out Diameter (in)              | Drill Out Date                      |

## Spacer

|                                 |                                                                                                                       |                           |                      |                                |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|--------------------------------|
| Fluid Type<br>Spacer            | Fluid Description<br>MUDPUSH Express Spacer<br>D047 - .2 gal/bbl B389 - .60 lb/bbl BW IV.Spacer D035 - 2801.3 lb/mgal | Quantity (sacks)          | Class                | Volume Pumped (bbl)<br>30.0    |
| Estimated Top (ftKB)<br>3,204.0 | Estimated Bottom Depth (ftKB)<br>3,850.0                                                                              | Percent Excess Pumped (%) | Yield (ft³/sack)     | Fluid Mix Ratio (gal/sack)     |
| Free Water (%)                  | Density (lb/gal)<br>10.00                                                                                             | Zero Gel Time (min)       | Thickening Time (hr) | 1st Compressive Strength (psi) |

## Cement Fluid Additives

| Add | Type | Conc |
|-----|------|------|
|     |      |      |

## Lead

|                                 |                                                                                                                         |                                   |                          |                                     |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------|-------------------------------------|
| Fluid Type<br>Lead              | Fluid Description<br>50:50 Poz/H + .2% D046 + 6.5% D020 + 8% D154 + .2% D065 + 2lb/sk B288 + 2 lb/sk B289 +.03 GPS D017 | Quantity (sacks)<br>624           | Class<br>H               | Volume Pumped (bbl)<br>299.0        |
| Estimated Top (ftKB)<br>3,850.0 | Estimated Bottom Depth (ftKB)<br>8,567.0                                                                                | Percent Excess Pumped (%)<br>50.0 | Yield (ft³/sack)<br>2.69 | Fluid Mix Ratio (gal/sack)<br>15.77 |
| Free Water (%)                  | Density (lb/gal)<br>11.50                                                                                               | Zero Gel Time (min)               | Thickening Time (hr)     | 1st Compressive Strength (psi)      |

## Cement Fluid Additives

| Add | Type | Conc |
|-----|------|------|
|     |      |      |





# Cement Summary

Production Casing Cement

|                                            |                               |                                              |                        |                                |                  |
|--------------------------------------------|-------------------------------|----------------------------------------------|------------------------|--------------------------------|------------------|
| Well Name<br>SALADO DRAW WE 14 FED P7 004H |                               | Lease<br>SD 14 FED P7                        | Field Name<br>JENNINGS | Business Unit<br>Mid-Continent |                  |
| Ground Elevation (ft)<br>3,165.00          | Original RKB (ft)<br>3,197.60 | Current RKB Elevation<br>3,197.60, 3/28/2016 |                        | Mud Line Elevation (ft)        | Water Depth (ft) |

|                                 |                                                                                                                    |                     |                                   |                                |                                    |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|--------------------------------|------------------------------------|
| <b>Lead</b>                     |                                                                                                                    |                     |                                   |                                |                                    |
| Fluid Type<br>Lead              | Fluid Description<br>TXI + 3% D020 + .2% D046<br>+ .2% D065 + .4% D238 + .4%<br>D013 + .06% D208 + .01 GPS<br>D177 |                     | Quantity (sacks)<br>905           | Class<br>H                     | Volume Pumped (bbl)<br>258.0       |
| Estimated Top (ftKB)<br>8,567.0 | Estimated Bottom Depth (ftKB)<br>12,800.0                                                                          |                     | Percent Excess Pumped (%)<br>35.0 | Yield (ft³/sack)<br>1.60       | Fluid Mix Ratio (gal/sack)<br>8.62 |
| Free Water (%)                  | Density (lb/gal)<br>12.50                                                                                          | Zero Gel Time (min) | Thickening Time (hr)              | 1st Compressive Strength (psi) |                                    |

|                               |      |      |
|-------------------------------|------|------|
| <b>Cement Fluid Additives</b> |      |      |
| Add                           | Type | Conc |
|                               |      |      |

|                                  |                                                                                                      |                     |                                  |                                |                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|--------------------------------|------------------------------------|
| <b>Tail</b>                      |                                                                                                      |                     |                                  |                                |                                    |
| Fluid Type<br>Tail               | Fluid Description<br>Class H + 2% D046 + .2%<br>D065 + .4% D167 + .15%<br>D800 + 75% D151 + .1% D208 |                     | Quantity (sacks)<br>120          | Class<br>H                     | Volume Pumped (bbl)<br>47.0        |
| Estimated Top (ftKB)<br>12,800.0 | Estimated Bottom Depth (ftKB)<br>13,816.0                                                            |                     | Percent Excess Pumped (%)<br>0.0 | Yield (ft³/sack)<br>2.18       | Fluid Mix Ratio (gal/sack)<br>9.55 |
| Free Water (%)                   | Density (lb/gal)<br>15.00                                                                            | Zero Gel Time (min) | Thickening Time (hr)             | 1st Compressive Strength (psi) |                                    |

|                               |      |      |
|-------------------------------|------|------|
| <b>Cement Fluid Additives</b> |      |      |
| Add                           | Type | Conc |
|                               |      |      |

|                            |                                                         |                     |                           |                                |                                    |
|----------------------------|---------------------------------------------------------|---------------------|---------------------------|--------------------------------|------------------------------------|
| <b>Displacement</b>        |                                                         |                     |                           |                                |                                    |
| Fluid Type<br>Displacement | Fluid Description<br>20 bbls Acetic Acid 284 bbls<br>FW |                     | Quantity (sacks)          | Class                          | Volume Pumped (bbl)<br>304.0       |
| Estimated Top (ftKB)       | Estimated Bottom Depth (ftKB)                           |                     | Percent Excess Pumped (%) | Yield (ft³/sack)               | Fluid Mix Ratio (gal/sack)<br>8.33 |
| Free Water (%)             | Density (lb/gal)<br>8.33                                | Zero Gel Time (min) | Thickening Time (hr)      | 1st Compressive Strength (psi) |                                    |

|                               |      |      |
|-------------------------------|------|------|
| <b>Cement Fluid Additives</b> |      |      |
| Add                           | Type | Conc |
|                               |      |      |