

ALT ☐ I ☐ II ☐ III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



|           |                        |
|-----------|------------------------|
| Form      | ACO1 - Well Completion |
| Operator  | JTC Oil, Inc.          |
| Well Name | WEST WADDLE I-11       |
| Doc ID    | 1633159                |

#### Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|-------------------|-------------------|-----------------|--------|---------------|----------------|----------------------|----------------------------|
| Surface           | 9.875             | 7               | 21     | 20            | Portland       | 3                    | NA                         |
| Production        | 5.785             | 2.875           | 6.5    | 543           | Thixo          | 51                   | See Ticket                 |
|                   |                   |                 |        |               |                |                      |                            |
|                   |                   |                 |        |               |                |                      |                            |

## DRILL LOG

Operator License # 32834  
 Operator JTC Oil, Inc.  
 Address 35790 Plum Creek Rd  
 Osawatomie, KS 66064

Contractor JTC Oil, Inc, 35790 Plum Creek Rd  
 Osawatomie, KS 66064

TD 560 TD of Pipe 543  
 Surface Pipe 7" Depth 20 Ft w/3sx cement

API # 15-121-31657-00-00  
 Lease Name West Waddle  
 Well I- 11  
 Spud Date 11/10/21  
 Cement Date 11/16/21

County Miami

Kind of Well Injector

| Thickness | Strata     | From | To  |
|-----------|------------|------|-----|
| 2         | top soil   | 0    | 2   |
| 6         | clay       | 2    | 8   |
| 5         | lime       | 8    | 13  |
| 13        | shale      | 13   | 26  |
| 13        | lime       | 26   | 39  |
| 43        | shale      | 39   | 82  |
| 15        | lime       | 82   | 97  |
| 8         | shale      | 97   | 105 |
| 31        | lime       | 105  | 136 |
| 8         | coal       | 136  | 144 |
| 22        | lime       | 144  | 166 |
| 4         | coal       | 166  | 170 |
| 14        | lime       | 170  | 184 |
| 139       | shale      | 184  | 323 |
| 4         | red bed    | 323  | 327 |
| 24        | lime/shale | 327  | 351 |
| 12        | lime       | 351  | 363 |
| 7         | shale      | 363  | 370 |
| 6         | oil sand   | 370  | 376 |
| 33        | shale      | 376  | 409 |
| 4         | coal       | 409  | 413 |
| 8         | lime       | 413  | 421 |
| 10        | shale      | 421  | 433 |
| 2         | lime       | 433  | 435 |
| 16        | shale      | 435  | 451 |
| 6         | lime       | 451  | 457 |
| 21        | shale      | 457  | 478 |
| 3         | lime       | 478  | 481 |
| 2         | coal       | 481  | 483 |
| 4         | lime       | 483  | 487 |
| 6         | shale      | 487  | 493 |
| 2         | oil sand   | 493  | 495 |
| 3         | oil sand   | 495  | 498 |
| 4         | oil sand   | 498  | 502 |
| 2         | oil sand   | 502  | 504 |
| 56        | shale      | 504  | 560 |



# CEMENT TREATMENT REPORT

|              |                |         |                                |          |             |
|--------------|----------------|---------|--------------------------------|----------|-------------|
| Customer:    | JTC Oil Inc    | Well:   | West Waddle I-11, 11, I-10, 10 | Ticket:  | EP3303      |
| City, State: | Osawatomie, KS | County: | MI, KS                         | Date:    | 11/16/2021  |
| Field Rep:   | Tom Cain       | S-T-R:  | 23-18-21                       | Service: | longstrings |

| Downhole Information |          | Calculated Slurry - Lead |                           | Calculated Slurry - Tail |                      |
|----------------------|----------|--------------------------|---------------------------|--------------------------|----------------------|
| Hole Size:           | 5 7/8 in | Blend:                   | Thixo 1# PS               | Blend:                   |                      |
| Hole Depth:          | ft       | Weight:                  | 13.70 ppg                 | Weight:                  | ppg                  |
| Casing Size:         | 2 7/8 in | Water / Sx:              | 9.19 gal / sx             | Water / Sx:              | gal / sx             |
| Casing Depth:        | ft       | Yield:                   | 1.85 ft <sup>3</sup> / sx | Yield:                   | ft <sup>3</sup> / sx |
| Tubing / Liner:      | in       | Annular Bbls / Ft.:      | bbs / ft.                 | Annular Bbls / Ft.:      | bbs / ft.            |
| Depth:               | ft       | Depth:                   | ft                        | Depth:                   | ft                   |
| Tool / Packer:       |          | Annular Volume:          | 0.0 bbls                  | Annular Volume:          | 0 bbls               |
| Tool Depth:          | ft       | Excess:                  |                           | Excess:                  |                      |
| Displacement:        | bbls     | Total Slurry:            | bbls                      | Total Slurry:            | 0.0 bbls             |
|                      |          | Total Sacks:             | 0 sx                      | Total Sacks:             | 0 sx                 |

| TIME     | RATE | PSI | BBLs | TOTAL BBLs | REMARKS                                                                                                  |
|----------|------|-----|------|------------|----------------------------------------------------------------------------------------------------------|
| 8:30 AM  |      |     | -    | -          | on location, held safety meeting                                                                         |
|          |      |     |      |            |                                                                                                          |
| 4.0      |      |     | -    | -          | #1-11 - established circulation, mixed and pumped 100# Bentonite Gel followed by 4 bbls fresh water      |
| 4.0      |      |     | -    | -          | mixed and pumped 51 sks Thixo cement with 1# PhenoSeal per sk, cement to surface                         |
| 1.0      |      |     | -    | -          | flushed pump clean, pumped 2 2 7/8" rubber plugs to pin with 3.10 bbls fresh water, pressured to 400 PSI |
| 4.0      |      |     | -    | -          | well held pressure, shut in casing, washed up equipment                                                  |
|          |      |     | -    | -          | 560'/540'/535'                                                                                           |
|          |      |     |      |            |                                                                                                          |
| 4.0      |      |     | -    | -          | #11 - established circulation, mixed and pumped 100# Bentonite Gel followed by 4 bbls fresh water        |
| 4.0      |      |     | -    | -          | mixed and pumped 58 sks Thixo cement with 1# PhenoSeal per sk, cement to surface                         |
| 1.0      |      |     | -    | -          | flushed pump clean, pumped 2 2 7/8" rubber plugs to pin with 3.21 bbls fresh water, pressured to 400 PSI |
| 4.0      |      |     | -    | -          | well held pressure, shut in casing, washed up equipment                                                  |
|          |      |     | -    | -          | 580'/560'/555'                                                                                           |
|          |      |     |      |            |                                                                                                          |
| 4.0      |      |     | -    | -          | #1-10 - established circulation, mixed and pumped 100# Bentonite Gel followed by 4 bbls fresh water      |
| 4.0      |      |     | -    | -          | mixed and pumped 53 sks Thixo cement with 1# PhenoSeal per sk, cement to surface                         |
| 1.0      |      |     | -    | -          | flushed pump clean, pumped 2 2 7/8" rubber plugs to pin with 3.11 bbls fresh water, pressured to 400 PSI |
| 4.0      |      |     | -    | -          | well held pressure, shut in casing, washed up equipment                                                  |
|          |      |     | -    | -          | 560'/534'/538'                                                                                           |
|          |      |     |      |            |                                                                                                          |
| 4.0      |      |     | -    | -          | #10 - established circulation, mixed and pumped 100# Bentonite Gel followed by 4 bbls fresh water        |
| 4.0      |      |     | -    | -          | mixed and pumped 56 sks Thixo cement with 1# PhenoSeal per sk, cement to surface                         |
| 1.0      |      |     | -    | -          | flushed pump clean, pumped 2 2 7/8" rubber plugs to pin with 3.17 bbls fresh water, pressured to 400 PSI |
| 4.0      |      |     | -    | -          | well held pressure, released pressure to set float valve, shut in casing, washed up equipment            |
|          |      |     | -    | -          | 560'/552'/547'                                                                                           |
|          |      |     |      |            |                                                                                                          |
| 11:30 AM |      |     |      |            | left location                                                                                            |

| CREW           |               | UNIT | SUMMARY      |                  |             |
|----------------|---------------|------|--------------|------------------|-------------|
| Cementor:      | Casey Kennedy | 89   | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | Garrett Scott | 239  | 3.3 bpm      | - psi            | - bbls      |
| Bulk:          | Nick Beets    | 246  |              |                  |             |
| H2O:           | Pat Sanborn   | 123  |              |                  |             |