



# Condor Energy Technology LLC

**Well Name:** Wickstrom 18-2H  
**Date:** 4/1/2013  
**County:** Morgan

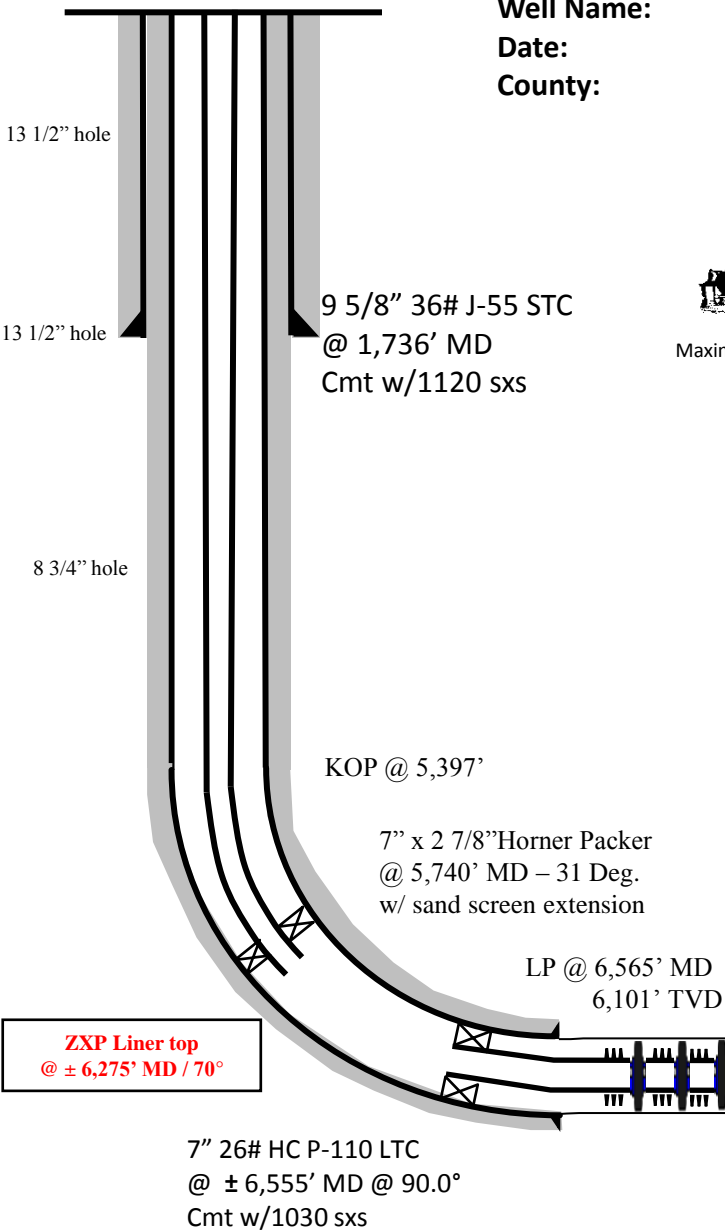
**Field:** Wildcat  
**Location:** Sec.18/19, T6N R60W  
**State:** Colorado



Maximizer II 456-305-144

**Surface Location:** 285' FNL 1600' FWL Sec. 18 T6N R60W  
**Lateral TD Location:** 1600' FSL 1080' FWL Sec. 19 T6N R60W  
**Completed:**  
**Elevation:** 4700'  
**KB:** 18.5'  
**API #:** 05-087-08172

|          |            |          |        |
|----------|------------|----------|--------|
| Stage 1  | 1.250" x 2 | Stage 18 | 3.500" |
| Stage 2  | 1.375" x 2 | Stage 19 | 3.625" |
| Stage 3  | 1.500" x 2 | Stage 20 | 3.750" |
| Stage 4  | 1.750"     | Stage 21 | PnP    |
| Stage 5  | 1.875"     | Stage 22 | PnP    |
| Stage 6  | 2.000"     | Stage 23 | PnP    |
| Stage 7  | 2.125"     | Stage 24 | PnP    |
| Stage 8  | 2.250"     | Stage 25 | PnP    |
| Stage 9  | 2.375"     | Stage 26 | PnP    |
| Stage 10 | 2.500"     | Stage 27 | PnP    |
| Stage 11 | 2.625"     | Stage 28 | PnP    |
| Stage 12 | 2.750"     | Stage 29 | PnP    |
| Stage 13 | 2.875"     | Stage 30 | PnP    |
| Stage 14 | 3.000"     | Stage 31 | PnP    |
| Stage 15 | 3.125"     | Stage 32 | PnP    |
| Stage 16 | 3.250"     | Stage 33 | PnP    |
| Stage 17 | 3.375"     |          |        |



6 1/8" hole

4 1/2" 11.6# HC P-110 LTC

Stimulate in 33 stages (247 ft / stage)

**TD @ 14,706' MD**  
**6125' TVD @ 89.63 deg.**



# Sleeves / Perforating Schedule (1 of 2)

| Stage 1    |            |          |         |  |
|------------|------------|----------|---------|--|
| 14,416 ' - | 14,687 ' - | 1.250" @ | 14,573' |  |

| Stage 2    |            |          |         |  |
|------------|------------|----------|---------|--|
| 14,219 ' - | 14,416 ' - | 1.375" @ | 14,337' |  |

| Stage 3    |            |          |         |  |
|------------|------------|----------|---------|--|
| 13,982 ' - | 14,219 ' - | 1.500" @ | 14,099' |  |

| Stage 4    |            |          |         |  |
|------------|------------|----------|---------|--|
| 13,745 ' - | 13,982 ' - | 1.750" @ | 13,861' |  |

| Stage 5    |            |          |         |  |
|------------|------------|----------|---------|--|
| 13,508 ' - | 13,745 ' - | 1.875" @ | 13,624' |  |

| Stage 6    |            |          |         |  |
|------------|------------|----------|---------|--|
| 13,269 ' - | 13,508 ' - | 2.000" @ | 13,386' |  |

| Stage 7    |            |          |         |  |
|------------|------------|----------|---------|--|
| 13,031 ' - | 13,269 ' - | 2.125" @ | 13,148' |  |

| Stage 8    |            |          |         |  |
|------------|------------|----------|---------|--|
| 12,787 ' - | 13,031 ' - | 2.250" @ | 12,909' |  |

| Stage 9    |            |          |         |  |
|------------|------------|----------|---------|--|
| 12,539 ' - | 12,787 ' - | 2.375" @ | 12,660' |  |

| Stage 10   |            |          |         |  |
|------------|------------|----------|---------|--|
| 12,292 ' - | 12,539 ' - | 2.500" @ | 12,414' |  |

| Stage 11   |            |          |         |  |
|------------|------------|----------|---------|--|
| 12,090 ' - | 12,292 ' - | 2.625" @ | 12,169' |  |

| Stage 12   |            |          |         |  |
|------------|------------|----------|---------|--|
| 11,809 ' - | 12,090 ' - | 2.750" @ | 11,930' |  |

| Stage 13   |            |          |         |  |
|------------|------------|----------|---------|--|
| 11,603 ' - | 11,809 ' - | 2.875" @ | 11,684' |  |

| Stage 14   |            |          |         |  |
|------------|------------|----------|---------|--|
| 11,330 ' - | 11,603 ' - | 3.000" @ | 11,446' |  |

| Stage 15   |            |          |         |  |
|------------|------------|----------|---------|--|
| 11,131 ' - | 11,330 ' - | 3.125" @ | 11,211' |  |

| Stage 16   |            |          |         |  |
|------------|------------|----------|---------|--|
| 10,932 ' - | 11,131 ' - | 3.250" @ | 11,011' |  |

| Stage 17   |            |          |         |  |
|------------|------------|----------|---------|--|
| 10,725 ' - | 10,932 ' - | 3.375" @ | 10,812' |  |

| Stage 18   |            |          |         |  |
|------------|------------|----------|---------|--|
| 10,441 ' - | 10,725 ' - | 3.500" @ | 10,601' |  |

| Stage 19   |            |          |         |  |
|------------|------------|----------|---------|--|
| 10,121 ' - | 10,441 ' - | 3.625" @ | 10,241' |  |

| Stage 20  |            |          |        |  |
|-----------|------------|----------|--------|--|
| 9,877 ' - | 10,121 ' - | 3.750" @ | 9,999' |  |

| Stage 21  |           |              |        |    |
|-----------|-----------|--------------|--------|----|
| 9,634 ' - | 9,877 ' - | 4 1/2" CFP @ | 9,857' |    |
| 9,694 ' - | 9,696 ' - | 6 SPF        | 2'     | 12 |
| 9,755 ' - | 9,757 ' - | 6 SPF        | 2'     | 12 |
| 9,816 ' - | 9,818 ' - | 6 SPF        | 2'     | 12 |
| TOTAL     |           |              | 6'     | 36 |

| Stage 22  |           |              |        |    |
|-----------|-----------|--------------|--------|----|
| 9,392 ' - | 9,634 ' - | 4 1/2" CFP @ | 9,614' |    |
| 9,452 ' - | 9,454 ' - | 6 SPF        | 2'     | 12 |
| 9,513 ' - | 9,515 ' - | 6 SPF        | 2'     | 12 |
| 9,573 ' - | 9,575 ' - | 6 SPF        | 2'     | 12 |
| TOTAL     |           |              | 6'     | 36 |

| Stage 23  |           |              |        |    |
|-----------|-----------|--------------|--------|----|
| 9,191 ' - | 9,392 ' - | 4 1/2" CFP @ | 9,372' |    |
| 9,241 ' - | 9,243 ' - | 6 SPF        | 2'     | 12 |
| 9,291 ' - | 9,293 ' - | 6 SPF        | 2'     | 12 |
| 9,341 ' - | 9,343 ' - | 6 SPF        | 2'     | 12 |
| TOTAL     |           |              | 6'     | 36 |

| Stage 24  |           |              |        |    |
|-----------|-----------|--------------|--------|----|
| 8,984 ' - | 9,191 ' - | 4 1/2" CFP @ | 9,171' |    |
| 9,035 ' - | 9,037 ' - | 6 SPF        | 2'     | 12 |
| 9,087 ' - | 9,089 ' - | 6 SPF        | 2'     | 12 |
| 9,139 ' - | 9,141 ' - | 6 SPF        | 2'     | 12 |
| TOTAL     |           |              | 6'     | 36 |

| Stage 25  |           |              |        |    |
|-----------|-----------|--------------|--------|----|
| 8,665 ' - | 8,984 ' - | 4 1/2" CFP @ | 8,964' |    |
| 8,744 ' - | 8,746 ' - | 6 SPF        | 2'     | 12 |
| 8,824 ' - | 8,826 ' - | 6 SPF        | 2'     | 12 |
| 8,904 ' - | 8,906 ' - | 6 SPF        | 2'     | 12 |
| TOTAL     |           |              | 6'     | 36 |

| Stage 26  |           |              |        |    |
|-----------|-----------|--------------|--------|----|
| 8,422 ' - | 8,665 ' - | 4 1/2" CFP @ | 8,645' |    |
| 8,482 ' - | 8,484 ' - | 6 SPF        | 2'     | 12 |
| 8,543 ' - | 8,545 ' - | 6 SPF        | 2'     | 12 |
| 8,604 ' - | 8,606 ' - | 6 SPF        | 2'     | 12 |
| TOTAL     |           |              | 6'     | 36 |

| Stage 27  |           |              |        |    |
|-----------|-----------|--------------|--------|----|
| 8,179 ' - | 8,442 ' - | 4 1/2" CFP @ | 8,422' |    |
| 8,244 ' - | 8,246 ' - | 6 SPF        | 2'     | 12 |
| 8,310 ' - | 8,312 ' - | 6 SPF        | 2'     | 12 |
| 8,376 ' - | 8,378 ' - | 6 SPF        | 2'     | 12 |
| TOTAL     |           |              | 6'     | 36 |



# Sleeves / Perforating Schedule (2 of 2)

## Stage 28

|           |           |            |        |
|-----------|-----------|------------|--------|
| 7,936 ' - | 8,179 ' - | 4 ½" CFP @ | 8,159' |
| 7,996 ' - | 7,998 ' - | 6 SPF 2'   | 12     |
| 8,057 ' - | 8,059 ' - | 6 SPF 2'   | 12     |
| 8,118 ' - | 8,120 ' - | 6 SPF 2'   | 12     |
| TOTAL     |           | 6'         | 36     |

## Stage 33

|           |           |            |        |
|-----------|-----------|------------|--------|
| 6,758 ' - | 6,993 ' - | 4 ½" CFP @ | 6,973' |
| 6,816 ' - | 6,820 ' - | 6 SPF 2'   | 12     |
| 6,875 ' - | 6,877 ' - | 6 SPF 2'   | 12     |
| 6,934 ' - | 6,936 ' - | 6 SPF 2'   | 12     |
| TOTAL     |           | 6'         | 36     |

## Stage 29

|           |           |            |        |
|-----------|-----------|------------|--------|
| 7,697 ' - | 7,936 ' - | 4 ½" CFP @ | 7,916' |
| 7,756 ' - | 7,758 ' - | 6 SPF 2'   | 12     |
| 7,816 ' - | 7,818 ' - | 6 SPF 2'   | 12     |
| 7,876 ' - | 7,878 ' - | 6 SPF 2'   | 12     |
| TOTAL     |           | 6'         | 36     |

## Stage 30

|           |           |            |        |
|-----------|-----------|------------|--------|
| 7,462 ' - | 7,697 ' - | 4 ½" CFP @ | 7,916' |
| 7,520 ' - | 7,522 ' - | 6 SPF 2'   | 12     |
| 7,579 ' - | 7,581 ' - | 6 SPF 2'   | 12     |
| 7,638 ' - | 7,640 ' - | 6 SPF 2'   | 12     |
| TOTAL     |           | 6'         | 36     |

## Stage 31

|           |           |            |        |
|-----------|-----------|------------|--------|
| 7,227 ' - | 7,462 ' - | 4 ½" CFP @ | 7,442' |
| 7,285 ' - | 7,287 ' - | 6 SPF 2'   | 12     |
| 7,344 ' - | 7,246 ' - | 6 SPF 2'   | 12     |
| 7,403 ' - | 7,405 ' - | 6 SPF 2'   | 12     |
| TOTAL     |           | 6'         | 36     |

## Stage 32

|           |           |            |        |
|-----------|-----------|------------|--------|
| 6,993 ' - | 7,227 ' - | 4 ½" CFP @ | 7,207' |
| 7,051 ' - | 7,053 ' - | 6 SPF 2'   | 12     |
| 7,110 ' - | 7,112 ' - | 6 SPF 2'   | 12     |
| 7,168 ' - | 7,170 ' - | 6 SPF 2'   | 12     |
| TOTAL     |           | 6'         | 36     |



# Stimulation Schedule

| Fluid    | Rate | Vol, gal | Vol, bbl | Prop       | Prop Con | Prop, lbs | Time, min |
|----------|------|----------|----------|------------|----------|-----------|-----------|
| FR Water | 50   | 15000    | 357      |            |          | 0         | 7.14      |
| FR Water | 50   | 25000    | 595      | 40/70 Sand | 0.5      | 12500     | 11.90     |
| FR Water | 50   | 25000    | 595      | 40/70 Sand | 0.75     | 18750     | 11.90     |
| Linear   | 50   | 25000    | 595      | 40/70 Sand | 1        | 25000     | 11.90     |
| Linear   | 50   | 25000    | 595      | 20/40 Sand | 1        | 25000     | 11.90     |
| Linear   | 50   | 25000    | 595      | 20/40 Sand | 2        | 50000     | 11.90     |
| X-Link   | 50   | 21000    | 500      | 20/40 Sand | 3        | 63000     | 10.00     |
| X-Link   | 50   | 5000     | 119      | 20/40 Sand | 4        | 20000     | 2.38      |
| X-Link   | 50   | 3000     | 71       | 20/40 CRC  | 4        | 12000     | 1.43      |
| TOTAL    |      | 169,000  | 4,024    |            |          | 226,250   | 80.5      |