

ATTACHMENT K

CONSTRUCTION DETAILS

1. FACILITY INFORMATION

Facility Name: CarbonFrontier

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Well Information:

| Well Number | County, State | Latitude | Longitude |
|-------------|-----------------|-----------------|------------------|
| CI1-64Z-27N | Kern County, CA | 35°33'9.4877"N | 119°48'26.3702"W |
| CI2-64Z-35N | Kern County, CA | 35°32'32.6713"N | 119°47'37.0682"W |
| CI3-64Z-35N | Kern County, CA | 35°32'11.6457"N | 119°47'7.5912"W |
| CI4-64Z-35N | Kern County, CA | 35°31'55.4154"N | 119°46'51.7864"W |
| 27R-27N | Kern County, CA | 35°33'2.4280"N | 119°48'28.6103"W |
| 55-26N | Kern County, CA | 35°32'43.2520"N | 119°47'32.7755"W |
| 64-35N | Kern County, CA | 35°31'44.3600"N | 119°46'44.9788"W |
| 9-1N | Kern County, CA | 35°31'31.6480"N | 119°46'37.0154"W |
| 64-27N | Kern County, CA | 35°32'38.0979"N | 119°47'54.6576"W |

Version History

| File Name | Version | Date | Description of Change |
|--|---------|------------------|--|
| Attachment K – Aera CCS Construction Details.pdf | 1 | January 19, 2023 | Original document |
| Attachment K – CarbonFrontier Construction Details V2 04182024.pdf | 2 | April 18, 2024 | Revisions made based on additional monitoring well and construction specifications |
| Attachment K – CarbonFrontier Construction Details V3 10152024.pdf | 3 | October 15, 2024 | Revisions made based on EPA Technical Review comments from September 12, 2024 |

The construction details for the following wells are described in this attachment:

- New-drill injection wells:
 - CI1-64Z-27N
 - CI2-64Z-35N
 - CI3-64Z-35N
 - CI4-64Z-35N

- Repurposed injection wells:
 - 27R-27N
 - 55-26N
 - 64-35N
 - 9-1N
 - 64-27N
- Repurposed monitoring wells:
 - 1-28N
 - 25-26N
 - 27-1N
 - 39-26N
 - 35X-27N

2. WELL CONSTRUCTION DETAILS – NEW-DRILL INJECTION WELLS

The well construction diagram for new-drill wells (CI1-64Z-27N, CI2-64Z-35N, CI3-64Z-35N, and CI4-64Z-35N) is shown in **Figure 1**. **Tables 1.a, 1.b, 1.c, and 1.d** show the respective well construction details.

Table 1.a: Open Hole Diameters and Intervals – New-Drill Wells

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|--------------------------|------------------------|-----------------------------|-----------------------------|
| Conductor | Surface – 50 | 26 | New drilled hole and casing |
| Surface | Surface – 1,000 | 17.5 | New drilled hole and casing |
| Intermediate | Surface – 6,100 | 12.25 | New drilled hole and casing |
| Long-string section 1 | Surface – 6,000 | 8.5 | New drilled hole and casing |
| Long-string section 2 | 6,000 – 8,000 | 8.5 | New drilled hole and casing |
| Liner | 7,700 – 8,500 | 6 | New drilled hole and casing |

ft: feet
in. inches

Table 1.b: Casing Specifications – New-Drill Well

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|-----------------------|----------------------------|-------------------------------|------------------------------|---------------------|--------------------|---|---|-----------------------------|--------------------------------|
| Conductor | Surface – 50 | 20 | 19.124 | 94 | H40 | Short | 26.2 | 1,530 | 520 |
| Surface | Surface – 1,000 | 13.375 | 12.615 | 54.5 | K55 | Short | 26.2 | 2,730 | 1,130 |
| Intermediate | Surface – 6,100 | 9.625 | 8.835 | 40 | K55 | Long | 26.2 | 3,950 | 2,570 |
| Long-string section 1 | Surface - 6,000 | 7 | 6.276 | 26 | L80 | Long | 26.2 | 7,240 | 5,410 |
| Long-string section 2 | 6,000 - 8,000 | 7 | 6.276 | 29 | Mod 13Cr110 | Long | 15.0 | 9,960 | 6,230 |
| Liner | 7,700 – 8,500 | 4.5 | 3.958 | 12.6 | Mod 13Cr95 | Long | 15.0 | 10,010 | 6,350 |

BTU/ft hr, °F: amount of heat in British thermal units that flows through one foot of the material per hour due to a one-degree Fahrenheit temperature difference across it

ppf: pounds per foot

psi: pounds per square inch

Table 1.c: Tubing Specifications – New-Drill Well

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|------------------|----------------------------|-------------------------------|------------------------------|---------------------|--------------------|---|-----------------------------|--------------------------------|-------------------------------|
| Injection tubing | Surface - 7,300 | 4.5 | 4.000 | 11.6 | Mod 13Cr80 | Long | 7,780 | 6,350 | 267,040 |

lbf: pound (force)

Table 1.d: Packer Specifications – New-Drill Well

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | 7,300 | 74 | 23-32 | 5.937 | 3.875 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 151,585 | 10,000 | 9,676 | 6.276 in. (nominal ID for 7 in. 26-ppf casing) | 6.151 in. (drift diameter for 7-in. 26-ppf casing) |

3. WELL CONSTRUCTION DETAILS – 27R-27N

The well construction diagram for well 27R-27N is shown in **Figure 2. Tables 2.a, 2.b, 2.c, and 2.d** show the respective well construction details.

Table 2.a: Open Hole Diameters and Intervals – 27R-27N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|-----------------------|--------------------------------|-------------------------------------|------------------|
| Conductor | Surface – 90 | Not reported | Existing casing |
| Surface | Surface – 805 | 22-in. hole | Existing casing |
| Long-string | Surface – 7,789 | 10.625-in. hole | Existing casing |
| Cutoff Casing | 7,775 – 8,820 | 7.875-in. hole | Existing casing |
| Liner | 8,800 – 8,940 | 5.625-in. hole | Existing liner |
| Long-string section 1 | Surface – 7,220 | 8.032 (ID of 9-in. casing) | New inner casing |
| Long-string section 2 | 7,220 – 7,693 | 8.032 (ID of 9-in. casing) | New inner casing |
| Liner | 7,630 – 8,250 | 5.855 (ID of 6.625-in. liner) | New inner liner |

Table 2.b: Casing Specifications – 27R-27N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|--------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|---|-------------------------------------|--|
| Conductor | Surface – 90 | 20 | Not reported | Not reported | Not reported | Short | 26.2 | Not reported | Not reported |
| Surface | Surface – 805 | 16 | 15.124 | 72.72 | Not reported | Short | 26.2 | Not reported | Not reported |
| Long-string | Surface – 7,789 | 9 | 8.032 | 45 | J55 | Long | 26.2 | 5,180 | 4,670 |
| Cutoff casing | 7,775 – 8,820 | 6.625 | 5.885 | 26 | N80 | Long | 26.2 | 8,140 | 6,980 |
| Liner | 8,800 – 8,940 | 4.75 | 4.082 | 16 | J55 | Long | 26.2 | 6,770 | 7,190 |
| Long-string section 1 | Surface – 7,220 | 7 | 6.276 | 26 | L80 | Long | 26.2 | 7,240 | 5,410 |
| Long-string section 2 | 7,220 – 7,693 | 7 | 6.276 | 26 | Mod 13Cr80 | Long | 15.0 | 7,240 | 5,410 |
| Liner | 7,630 – 8,250 | 4.5 | 3.958 | 11.6 | Mod 13Cr80 | Long | 15.0 | 10,010 | 8,410 |

Table 2.c: Tubing Specifications – 27R-27N

| Name | Setting Depth (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|------------------|-----------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|-------------------------------------|--|---------------------------------------|
| Injection tubing | Surface - 7,570 | 4.5 | 4.000 | 11.6 | Mod 13Cr80 | Long | 7,780 | 6,350 | 267,040 |

Table 2.d: Packer Specifications – 27R-27N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | 7,570 | 74 | 23-32 | 5.937 | 3.875 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 151,585 | 10,000 | 9,676 | 6.276 in. (nominal ID for 7-in. 26-ppf casing) | 6.151 in. (drift diameter for 7-in. 26-ppf casing) |

4. WELL CONSTRUCTION DETAILS – 55-26N

The well construction diagram for well 55-26N is shown in **Figure 3. Tables 3.a, 3.b, 3.c, and 3.d** show the respective well construction details.

Table 3.a: Open Hole Diameters and Intervals – 55-26N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|-----------------------|---------------------|----------------------------|------------------|
| Conductor | Surface – 48 | Not reported | Existing casing |
| Surface | Surface – 812 | 22-in. hole | Existing casing |
| Intermediate | Surface – 5,700 | 14 ¾-in. hole | Existing casing |
| Long string | Surface – 8,230 | 10 5/8-in. hole | Existing casing |
| Cutoff casing | 8,260 – 9,442 | 7 7/8 -in. hole | Existing casing |
| Liner | 9,340 – 10,800 | 5 5/8-in. hole | Existing liner |
| Long-string section 1 | Surface – 7,260 | 8.032 (ID of 9-in. casing) | New inner casing |
| Long-string section 2 | 7,260 – 7,630 | 8.032 (ID of 9-in. casing) | New inner casing |
| Liner | 7,575 – 8,161 | 8.032 (ID of 9-in. casing) | New liner |

Table 3.b: Casing Specifications – 55-26N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|--------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|---|-------------------------------------|--|
| Conductor | Surface – 48 | 30 | Not reported | Not reported | Not reported | Short | 26.2 | Not reported | Not reported |
| Surface | Surface – 812 | 16 | 15.124 | 72.72 | Not reported | Short | 26.2 | Not reported | Not reported |
| Intermediate | Surface – 5,700 | 11.75 | 10.772 | 61 | J55 | Long | 26.2 | 4,010 | 2,670 |
| Long-string | Surface – 8,230 | 9 | 8.032 | 45 | J55 | Long | 26.2 | 5,180 | 4,670 |
| Cutoff casing | 8,260 – 9,442 | 6.625 | 5.855 | 26 | N80 | Long | 26.2 | 10,250 | 10,690 |
| Liner | 9,340 – 10,800 | 4.75 | 4.082 | 16 | J55 | Long | 26.2 | 6,770 | 7,190 |
| Long-string section 1 | Surface - 7,260 | 7 | 6.276 | 26 | L80 | Long | 26.2 | 7,240 | 5,410 |
| Long-string section 2 | 7,260 - 7,630 | 7 | 6.276 | 26 | Mod 13Cr80 | Long | 15.0 | 7,240 | 5,410 |
| Liner | 7,575 - 8,161 | 4.5 | 3.958 | 12.6 | Mod 13Cr95 | Long | 15.0 | 10,010 | 8,410 |

Table 3.c: Tubing Specifications – 55-26N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|------------------|----------------------------|-------------------------------|------------------------------|---------------------|--------------------|---|-----------------------------|--------------------------------|-------------------------------|
| Injection tubing | Surface - 7,510 | 4.5 | 4.000 | 11.6 | Mod 13Cr80 | Long | 7,780 | 6,350 | 267,040 |

Table 3.d. Packer Specifications – 55-26N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | 7,510 | 74 | 23-32 | 5.937 | 3.875 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 151,585 | 10,000 | 9,676 | 6.276 in. (nominal ID for 7-in. 26-ppf casing) | 6.151 in. (drift diameter for 7-in. 26-ppf casing) |

5. WELL CONSTRUCTION DETAILS – 64-35N

The well construction diagram for well 64-35N is shown in **Figure 4. Tables 4.a, 4.b, 4.c, and 4.d** show the respective well construction details.

Table 4.a: Open Hole Diameters and Intervals – 64-35N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|--------------------------|--------------------------------|-------------------------------------|---------------------------------|
| Conductor | Surface – 89 | Not reported | Existing casing |
| Surface | Surface – 870 | 22-in. hole | Existing casing |
| Intermediate | Surface – 5,683 | 14.75-in. hole | Existing casing |
| Long-string | Surface – 7,820 | 10.625-in. hole | Existing casing |
| Liner | 7,787 – 8156 | 7.875-in. hole. | Uncemented liner to be removed. |
| Long-string section 1 | Surface – 7,220 | 8.032 (ID of 9-in. casing) | New inner casing |
| Long-string section 2 | 7,220 – 7,630 | 8.032 (ID of 9-in. casing) | New inner casing |
| Liner | 7,580 – 8,151 | 6.276 (ID of 7-in. casing) | New liner |

Table 4.b: Casing Specifications – 64-35N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|---------------|----------------------------|-------------------------------|------------------------------|---------------------|--------------------|---|---|-----------------------------|--------------------------------|
| Conductor | Surface – 89 | 20 | Not reported | Not reported | Not reported | Short | 26.2 | Not reported | Not reported |
| Surface | Surface – 870 | 16 | 15.124 | 72.72 | Not reported | Short | 26.2 | Not reported | Not reported |
| Intermediate | Surface – 5,683 | 11.75 | 10.772 | 61 | J55 | Long | 26.2 | 4,010 | 2,670 |
| Long-string | Surface - 5,631 | 9 | 8.032 | 46.1 | J55 | Long | 26.2 | 5,180 | 4,670 |
| Long-string | 5631 – 7,820 | 9 | 8.032 | 45 | J55 | Long | 26.2 | 5,180 | 4,670 |
| Long-string 1 | Surface - 7,220 | 7 | 6.276 | 26 | L80 | Long | 26.2 | 7,240 | 5,410 |
| Long-string 2 | 7,220 - 7,630 | 7 | 6.276 | 26 | Mod 13Cr80 | Long | 15.0 | 7,240 | 5,410 |
| Liner | 7,580 - 8,151 | 4.5 | 3.958 | 12.6 | Mod 13Cr110 | Long | 15.0 | 10,010 | 8,410 |

Table 4.c: Tubing Specifications – 64-35N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|------------------|----------------------------|-------------------------------|------------------------------|---------------------|--------------------|---|-----------------------------|--------------------------------|-------------------------------|
| Injection tubing | Surface - 7,530 | 4.5 | 4.000 | 11.6 | Mod 13Cr80 | Long | 7,780 | 6,350 | 267,040 |

Table 4.d: Packer Specifications – 64-35N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | 7,530 | 74 | 23-32 | 5.937 | 3.875 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 151,585 | 10,000 | 9,676 | 6.276 in. (nominal ID for 7-in. 26-ppf casing) | 6.151 in. (drift diameter for 7-in. 26-ppf casing) |

6. WELL CONSTRUCTION DETAILS – 9-1N

The well construction diagram for well 9-1N is shown in **Figure 5**. **Tables 5.a, 5.b, 5.c, and 5.d** show the respective well construction details.

Table 5.a: Open Hole Diameters and Intervals – 9-1N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|--------------|---------------------|-------------------------------|------------------|
| Conductor | Surface – 52 | Not reported | Existing casing |
| Surface | Surface – 815 | 22-in. hole | Existing casing |
| Intermediate | Surface – 5,855 | 14-3/4-in. hole | Existing casing |
| Long string | Surface – 7,985 | 10-5/8-in. hole | Existing casing |
| Liner | 7,935 – 8,455 | 7-5/8-in. hole | Existing liner |
| Long-string | Surface – 7,390 | 8.032 (ID of 9-in. casing) | New inner casing |
| Long-string | 7,390 – 7,840 | 8.032 (ID of 9-in. casing) | New inner casing |
| Liner | 7,780 – 8,374 | 4.892 (ID of 5-1/2-in. liner) | New inner liner |

Table 5.b: Casing Specifications – 9-1N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|--------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|---|-------------------------------------|--|
| Conductor | Surface – 52 | 20 | Not reported | Not reported | Not reported | Short | 26.2 | Not reported | Not reported |
| Surface | Surface – 815 | 16 | 15.124 | 72.72 | Not reported | Short | 26.2 | Not reported | Not reported |
| Intermediate | Surface – 5,855 | 11.75 | 10.772 | 61 | J55 | Long | 26.2 | 4,010 | 2,670 |
| Long-string | Surface – 7,985 | 9 | 8.032 | 45 | J55 | Long | 26.2 | 5,180 | 4,670 |
| Liner | 7,935 – 8,455 | 5.5 | 4.892 | 17 | K55 | Long | 26.2 | 5,320 | 4,910 |
| Long-string section 1 | Surface – 7,390 | 7 | 6.276 | 26 | L80 | Long | 26.2 | 7,240 | 5,410 |
| Long-string section 2 | 7,390 – 7,840 | 7 | 6.276 | 26 | Mod 13Cr80 | Long | 15.0 | 7,240 | 5,410 |
| Liner | 7,780 – 8,374 | 3.5 | 2.992 | 9.2 | Mod 13Cr80 | Long | 15.0 | 10,160 | 10,540 |

Table 5.c: Tubing Specifications – 9-1N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|------------------|------------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|-------------------------------------|--|---------------------------------------|
| Injection tubing | Surface - 7,720 | 4.5 | 4.000 | 11.6 | Mod 13Cr80 | Long | 7,780 | 6,350 | 267,040 |

Table 5.d: Packer Specifications – 9-1N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | 7,720 | 74 | 23-32 | 5.937 | 3.875 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 151,585 | 10,000 | 9,676 | 6.276 in. (nominal ID for 7-in. 26-ppf casing) | 6.151 in. (drift diameter for 7-in. 26-ppf casing) |

7. WELL CONSTRUCTION DETAILS – 64-27N

The well construction diagram for well 64-27N is shown in **Figure 6. Tables 6.a, 6.b, 6.c, and 6.d** show the respective well construction details.

Table 6.a: Open Hole Diameters and Intervals – 64-27N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|---------------|--------------------------------|-------------------------------------|---------------------------------------|
| Surface | Surface – 1,045 | Not reported | Existing casing |
| Intermediate | Surface – 4,929 | Not reported. | Existing casing |
| Long-string | Surface – 7,450 | Not reported. | Existing casing |
| Long string | Surface – 8,060 | Not reported. | Uncemented long string to be removed. |
| Long-string 1 | Surface – 7,050 | 7.285 in. (ID of 8-1/8-in. casing) | New inner casing |
| Long-string 2 | 7,050 – 7,538 | 7.285 in. (ID of 8-1/8-in. casing) | New inner casing |
| Liner | 7,480 – 8,038 | 5.921 in. (ID of 6-5/8-in. casing) | New liner |

Table 6.b: Casing Specifications – 64-27N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|---------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|---|-------------------------------------|--|
| Surface | Surface – 1,045 | 16 | 15.124 | 75 | Not reported | Short | 26.2 | Not reported | Not reported |
| Intermediate | Surface – 4,929 | 10.75 | 9.950 | 45.5 | D | Long | 26.2 | 3,580 | 2,090 |
| Long-string | Surface – 7,450 | 8.125 | 7.285 | 35.5 | D | Long | 26.2 | 4,980 | 4,320 |
| Long-string 1 | Surface – 7,050 | 6.625 | 5.921 | 24 | L80 | Long | 26.2 | 7,440 | 5,760 |
| Long-string 2 | 7,050 – 7,538 | 6.625 | 5.921 | 24 | Mod 13Cr80 | Long | 15.0 | 7,440 | 5,760 |
| Liner | 7,480 – 8,038 | 4.5 | 3.958 | 12.6 | Mod 13Cr110 | Long | 15.0 | 10,010 | 8,410 |

Table 6.c: Tubing Specifications – 64-27N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|------------------|------------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|-------------------------------------|--|---------------------------------------|
| Injection tubing | Surface - 7,420 | 4.5 | 4.000 | 11.6 | Mod 13Cr80 | Long | 7,780 | 6,350 | 267,040 |

Table 6.d: Packer Specifications – 64-27N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | 7,420 | 62.876 | 24 | 5.656 | 3.875 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 187,175 | 7,500 | 7,000 | 5.901 in. (nominal ID for 6.625 in. 24.6-ppf casing) | 5.776 in. (drift diameter for 6.625 in. 24.6-ppf casing) |

8. WELL CONSTRUCTION DETAILS – 1-28N

The well construction diagram for well 1-28N is shown in **Figure 7. Tables 7.a, 7.b, 7.c, and 7.d** show the respective well construction details.

Table 7.a: Open Hole Diameters and Intervals – 1-28N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|--------------------------|------------------------|----------------------------------|------------------|
| Surface | Surface – 807 | 22-in. hole | Existing casing |
| Intermediate | Surface – 5,930 | 14.75-in. hole | Existing casing |
| Long-string | Surface – 8,000 | 10.625-in. hole | Existing casing |
| Liner | 7,974 – 8,450 | 7.875 | Existing liner |
| Long-string section 1 | Surface – 7,900 | 8.032 in. (ID of 9-in. casing) | New inner casing |
| Long-string section 2 | 7,900 – 8,450 | 4.082 in. (ID of 4.75-in. liner) | New inner casing |

Table 7.b: Casing Specifications – 1-28N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|--------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|---|-------------------------------------|--|
| Surface | Surface – 807 | 16 | 15.124 | 72.72 | C | Short | 26.2 | Not reported | Not reported |
| Intermediate | Surface – 5,930 | 11.75 | 10.772 | 61 | D | Long | 26.2 | 4,010 | 2,670 |
| Long-string | Surface - 5,929 | 9 | 8.032 | 46.1 | D | Long | 26.2 | 5,180 | 4,670 |
| Long-string | 5,929 – 8,000 | 9 | 8.032 | 45 | D | Long | 26.2 | 5,180 | 4,670 |
| Slotted liner | 7,974 - 8,450 | 4.75 | 4.082 | 16 | D | Long | 26.2 | Not reported | Not reported |
| Long-string section 1 | Surface – 7,300 | 7 | 6.276 | 26 | L80 | Long | 26.2 | 7,240 | 5,410 |
| Long-string section 2 | 7,300 – 7,972 | 7 | 6.276 | 26 | Mod 13Cr80 | Long | 15.0 | 7,240 | 5,410 – 10,540 |
| Long-string section 3 | 7,972 – 8,450 | 3.5 | 2.992 | 9.2 | Mod 13Cr80 | Long | 15.0 | 11,200 | 11,780 |

Table 7.c: Tubing Specifications – 1-28N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|-------------|----------------------------|-------------------------------|------------------------------|---------------------|--------------------|---|-----------------------------|--------------------------------|-------------------------------|
| Tubing | 7,400 | 2.375 | 1.995 | 4.60 | Mod 13Cr80 | Long | 11,200 | 11,780 | 104,350 |
| Tubing | 7,850 | 2.375 | 1.995 | 4.60 | Mod 13Cr80 | Long | 11,200 | 11,780 | 104,350 |

Table 7.d: Packer Specifications – 1-28N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | Packer 1 - 7,400 | 74 | 23-32 | 5.937 | 1.995 in. (for both, based on tubing drift ID) |
| | Packer 2 - 7,850 | 74 | 23-32 | 5.937 | |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 187,175 187,175 | 8,750 8,750 | 8,500 8,500 | 6.276 in. (for both, nominal ID for 7-in. 26-ppf casing) | 6.151 in. (for both, drift diameter for 7-in. 26-ppf casing) |

9. WELL CONSTRUCTION DETAILS – 25-26N

The well construction diagram for well 25-26N is shown in **Figure 8. Tables 8.a, 8.b, 8.c, and 8.d** show the respective well construction details.

Table 8.a: Open Hole Diameters and Intervals – 25-26N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|--------------------------|------------------------|------------------------------------|------------------|
| Conductor | Surface – 90 | 32 | Existing casing |
| Surface | Surface – 800 | 22 | Existing casing |
| Intermediate | Surface – 5,900 | 14.75 | Existing casing |
| Long String | Surface – 6,244 | 10.625 | Existing casing |
| Long String | Surface – 8,133 | 7.875 | Existing casing |
| Long-String section 1 | Surface – 7,500 | 5.855 in. (ID of 6-5/8-in. Casing) | New inner casing |
| Long-string section 2 | 7,500 – 7,800 | 5.855 in. (ID of 6-5/8-in. Casing) | New inner casing |

Table 8.b: Casing Specifications – 25-26N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|-----------------------|----------------------------|-------------------------------|------------------------------|---------------------|--------------------|---|---|-----------------------------|--------------------------------|
| Conductor | Surface – 90 | 20 | Not reported | 94 | H-40 | Short | 26.2 | Not reported | Not reported |
| Surface | Surface – 800 | 16 | 15.124 | 72.72 | Not reported | Short | 26.2 | Not reported | Not reported |
| Intermediate | Surface – 5,900 | 11.75 | 10.772 | 61 | C-55 | Long | 26.2 | 4,010 | 2,670 |
| Long-string | Surface - 5,891 | 9 | 8.032 | 46.1 | C-55 | Long | 26.2 | 4,460 | 3,450 |
| Long-string | 5,891 - 6,244 | 9 | 8.032 | 45 | C-55 | Long | 26.2 | 4,460 | 3,450 |
| Long-string | Surface – 8,133 | 6.625 | 5.855 | 26 | J-55 | Long | 26.2 | 5,590 | 5,380 |
| Long-string section 1 | Surface – 7,500 | 4.5 | 4.000 | 11.6 | L80 | Long | 26.2 | 7,780 | 6,350 |
| Long-string section 2 | 7,500 – 7,800 | 4.5 | 4.000 | 11.6 | Mod 13Cr95 | Long | 15.0 | 9,240 | 7,030 |

Table 8.c: Tubing Specifications – 25-26N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|-------------|----------------------------|-------------------------------|------------------------------|---------------------|--------------------|---|-----------------------------|--------------------------------|-------------------------------|
| Tubing | Surface - 7,600 | 2.375 | 1.995 | 4.60 | Mod 13Cr80 | Long | 11,200 | 11,780 | 104,350 |

Table 8.d: Packer Specifications – 25-26N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | 7,600 | 53.168 | 11.6-13 | 3.771 | 1.995 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 56,000 | 6,265 | 5,720 | 3.958 in. (nominal ID for 4.5 in. 12.6-ppf casing) | 3.833 in. (drift diameter for 4.5 in. 12.6-ppf casing) |

10. WELL CONSTRUCTION DETAILS – 27-1N

The well construction diagram for well 27-1N is shown in **Figure 9. Tables 9.a, 9.b, 9.c, and 9.d** show the respective well construction details.

Table 9.a: Open Hole Diameters and Intervals – 27-1N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|--------------------------|--------------------------------|-------------------------------------|------------------|
| Conductor | Surface – 95 | Not reported | Existing casing |
| Surface | Surface – 816 | 22-in. hole | Existing casing |
| Intermediate | Surface – 6,010 | 14.75-in. hole | Existing casing |
| Long-string | Surface – 8,115 | 10.625-in. hole | Existing casing |
| Liner | 8,080 – 8,440 | 7.875 | Existing liner |
| Long-string section 1 | Surface – 8,000 | 8.032 (ID of 9-in. casing) | New inner casing |
| Long-string section 2 | 8,000 – 8,440 | 8.032 (ID of 9-in. casing) | New inner casing |

Table 9.b: Casing Specifications – 27-1N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|--------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|---|-------------------------------------|--|
| Conductor | Surface – 95 | 20 | Not reported | Not reported | Not reported | Short | 26.2 | Not reported | Not reported |
| Surface | Surface – 816 | 16 | 15.124 | 72.72 | Not reported | Short | 26.2 | Not reported | Not reported |
| Intermediate | Surface – 6,010 | 11.75 | 10.772 | 61 | J55 | Long | 26.2 | 4,010 | 2,670 |
| Long-string | Surface - 6,002 | 9 | 8.032 | 46.1 | J55 | Long | 26.2 | 5,180 | 4,670 |
| Long-string | 6,002 – 8,115 | 9 | 8.032 | 45 | J55 | Long | 26.2 | 5,180 | 4,670 |
| Liner | 8,080 – 8,440 | 5.5 | 4.892 | 17 | K55 | Long | 26.2 | 5,320 | 4,910 |
| Long-string section 1 | Surface - 7,580 | 5.5 | 4.950 | 15.5 | L80 | Long | 26.2 | 7,000 | 4,950 |
| Long-string section 2 | 7,580 – 8,000 | 5.5 | 4.892 | 17 | Mod 13Cr80 | Long | 15.0 | 7,740 | 6,290 |
| Long-string section 3 | 8,000 – 8,440 | 3.5 | 2.992 | 9.2 | Mod 13Cr80 | Long | 15 | 10,160 | 10,540 |

Table 9.c: Tubing Specifications – 27-1N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|-------------|----------------------------|-------------------------------|------------------------------|---------------------|--------------------|---|-----------------------------|--------------------------------|-------------------------------|
| Tubing | Surface - 7,800 | 2.375 | 1.995 | 4.60 | Mod 13Cr80 | Long | 11,200 | 11,780 | 104,350 |

Table 9.d: Packer Specifications – 27-1N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | 7,800 | 52.125 | 13-20 | 4.625 | 1.995 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 87,333 | 6,000 | 6,000 | 6.276 in. (nominal ID for 7-in. 26-ppf casing) | 6.151 in. (drift diameter for 7-in. 26-ppf casing) |

11. WELL CONSTRUCTION DETAILS – 39-26N

The well construction diagram for well 39-26N is shown in **Figure 10**. **Tables 10.a, 10.b, 10.c,** and **10.d** show the respective well construction details.

Table 10.a: Open Hole Diameters and Intervals – 39-26N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|--------------------------|------------------------|-----------------------------|------------------|
| Conductor | Surface – 92 | 32-in. hole | Existing casing |
| Surface | Surface – 803 | 22-in. hole | Existing casing |
| Intermediate | Surface – 5,875 | 14.75-in. hole | Existing casing |
| Long String | Surface – 8,100 | 10.625-in. hole | Existing casing |
| Long-string section 1 | Surface – 7,500 | 6.214 (ID of 7-in. casing) | New inner casing |
| Long-string section 2 | 7,500 – 8,100 | 6.214 (ID of 7-in. casing) | New inner casing |
| Long-string section 3 | 8,100 – 8,232 | 6 in. hole | New inner casing |

Table 10.b: Casing Specifications – 39-26N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|--------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|---|-------------------------------------|--|
| Conductor | Surface – 92 | 20 | Not Reported | 94 | H40 | Short | 26.2 | – | – |
| Surface | Surface – 803 | 16 | 15.124 | 72.72 | Not Reported | Short | 26.2 | Not reported | Not reported |
| Intermediate | Surface – 5,875 | 11.75 | 10.772 | 61 | NC55 | Long | 26.2 | 4,010 | 2,670 |
| Long String | Surface – 8,100 | 7 | 6.214 | 28 | J-55 | Long | 26.2 | 5,400 | 5,050 |
| Long-string section 1 | Surface – 7,500 | 4.5 | 4.000 | 11.6 | L80 | Long | 26.2 | 7,780 | 6,350 |
| Long-string section 2 | 7,500 - 8,100 | 4.5 | 4.000 | 11.6 | Mod 13Cr95 | Long | 15.0 | 9,240 | 7,030 |
| Long-string section 3 | 8,100 - 8,232 | 4.5 | 4.000 | 11.6 | Mod 13Cr95 | Long | 15.0 | 9,240 | 7,030 |

Table 10.c: Tubing Specifications – 39-26N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) | Tensile strength (lbf) |
|-------------|------------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|-------------------------------------|--|---------------------------------------|
| Tubing | Surface - 7,850 | 2.375 | 1.995 | 4.60 | Mod 13Cr80 | Long | 11,200 | 11,780 | 104,350 |

Table 10.d: Packer Specifications – 39-26N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|---|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Alloy 718 or equivalent | 7,850 | 53.168 | 11.6-13 | 3.771 | 1.995 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 56,000 | 6,265 | 5,720 | 4.000 in. (nominal ID for 4.5-in. 11.6-ppf casing) | 3.875 in. (drift diameter for 4.5-in. 11.6-ppf casing) |

12. WELL CONSTRUCTION DETAILS – 35X-27N

The well construction diagram for well 35X-27N is shown in **Figure 11. Tables 11.a, 11.b, 11.c, and 11.d** show the respective well construction details.

Table 11.a: Open Hole Diameters and Intervals – 35X-27N

| Name | Depth Interval (ft) | Open Hole Diameter (in.) | Comment |
|--------------|--------------------------------|-------------------------------------|-----------------|
| Conductor | Surface – 90 | Not reported | Existing casing |
| Surface | Surface – 1,027 | 17.5-in. hole | Existing casing |
| Intermediate | Surface – 5,608 | 12.25-in. hole | Existing casing |
| Long String | Surface – 7,707 | 8.5-in. hole | Existing casing |
| Open Hole | 7,707 – 7,835 | 6.125 in. hole | Open hole |

Table 11.b: Casing Specifications – 35X-27N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Thermal Conductivity @68°F (BTU/ft hr, °F) | Burst Strength (psi) | Collapse Strength (psi) |
|--------------------------|--------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|---|-------------------------------------|--|
| Conductor | Surface – 90 | 20 | Not Reported | 52 | Not Reported | Short | Not Reported | Not Reported | Not Reported |
| Surface | Surface – 1,027 | 13.375 | 12.615 | 54.5 | K – 55 | Not Reported | 26.2 | 2,735 | 1,130 |
| Intermediate | Surface – 3,916 | 9.625 | 8.835 | 40 | J – 55 | Long | 26.2 | 3,950 | 2,570 |
| Intermediate | 3,916 – 5,608 | 9.625 | 8.835 | 40 | N – 80 | Long | 26.2 | 5,750 | 3,090 |
| Long-string section 1 | Surface – 2,269 | 7 | 6.276 | 26 | N – 80 | Long | 26.2 | 7,240 | 5,410 |
| Long-string section 2 | 2,269 – 4,286 | 7 | 6.366 | 23 | N – 80 | Long | 26.2 | 6,340 | 3,830 |
| Long-string section 3 | 4,286 – 7,635 | 7 | 6.366 | 23 | K – 55 | Long | 26.2 | 4,360 | 3,270 |
| Long-string section 4 | 7,635 – 7,707 | 7 | 6.276 | 26 | N – 80 | Long | 26.2 | 7,240 | 5,410 |

Table 11.c: Tubing Specifications – 35X-27N

| Name | Depth Interval (ft) | Outside Diameter (in.) | Inside Diameter (in.) | Weight (ppf) | Grade (API) | Design Coupling (Short or Long Threaded) | Burst strength (psi) | Collapse strength (psi) |
|-------------|------------------------------------|---------------------------------------|--------------------------------------|-------------------------|------------------------|---|-------------------------------------|--|
| Tubing | Surface - 6,450 | 2.375 | 1.995 | 4.7 | L – 80 | Long | 11,200 | 11,780 |

Table 11.d: Packer Specifications – 35X-27N

| Packer Type and Material | Packer Setting Depth (ft) | Length (in.) | Nominal Casing Weight (ppf) | Packer Main Body Outer Diameter (in.) | Packer Inner Diameter (in.) |
|--|----------------------------------|---------------------|------------------------------------|--|--------------------------------------|
| Permanent or retrievable with latched seal assembly – Carbon Steel | 6,450 | 91.06 | 17 – 26 | 6.000 | 1.995 in. (based on tubing drift ID) |

| Tensile Rating (lbs) | Burst Rating (psi) | Collapse Rating (psi) | Max. Casing Inner Diameter (in.) | Min. Casing Inner Diameter (in.) |
|-----------------------------|---------------------------|------------------------------|--|--|
| 92,600 | 7,000 | 7,000 | 6.366 in. (nominal ID for 7.0-in. 23-ppf casing) | 6.241 in. (drift diameter for 7.0-in. 23-ppf casing) |

Figures

Figure Index

Figure 1. New-Drill Well for CO₂ Injection

Figure 2. 27R-27N Repurposed for CO₂ Injection

Figure 3. 55-26N Repurposed for CO₂ Injection

Figure 4. 64-35N Repurposed for CO₂ Injection

Figure 5. 9-1N Repurposed for CO₂ Injection

Figure 6. 64-27N Repurposed for CO₂ Injection

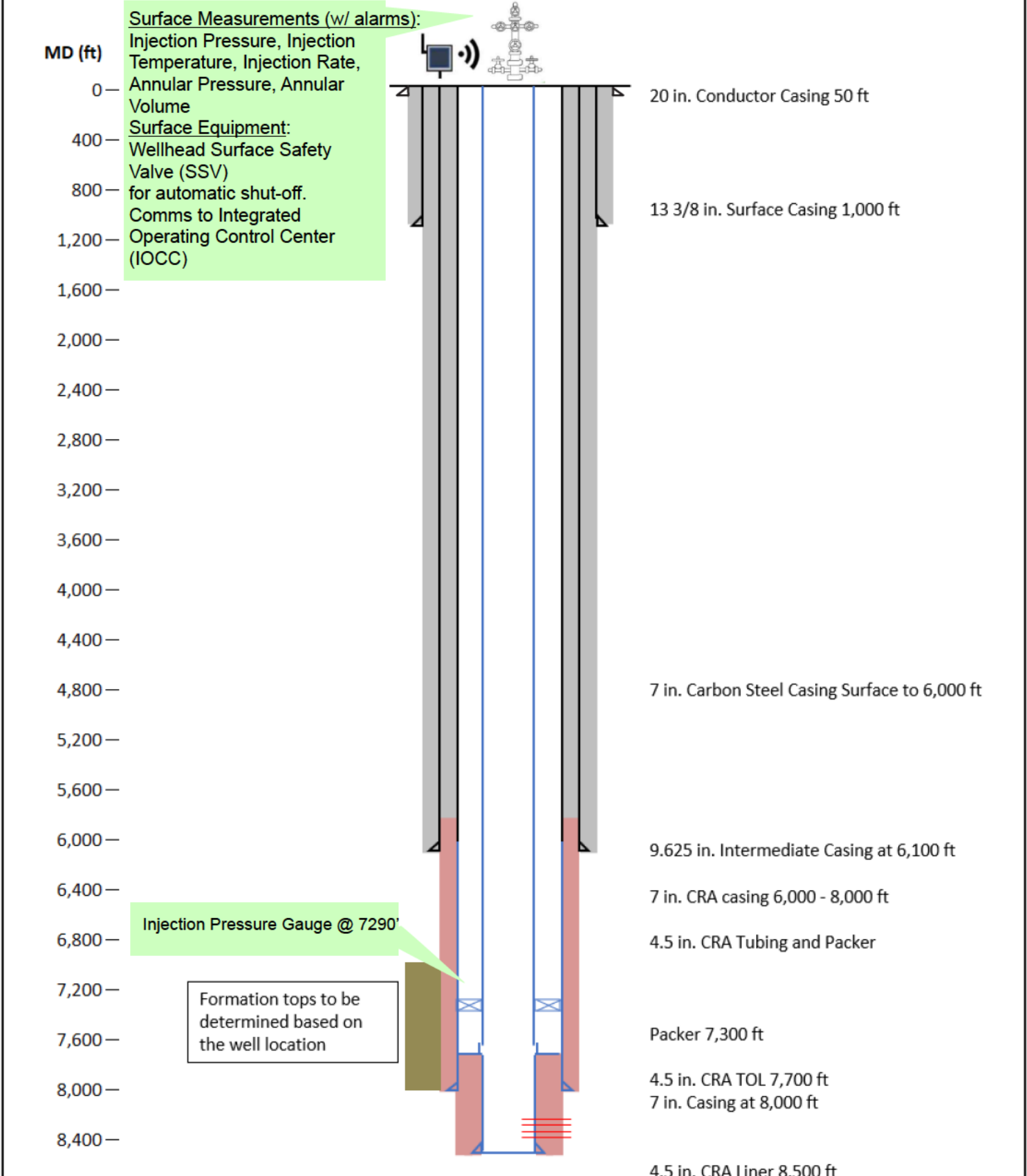
Figure 7. 1-28N Repurposed for Monitoring





Figure 8. 25-26N Repurposed for Monitoring

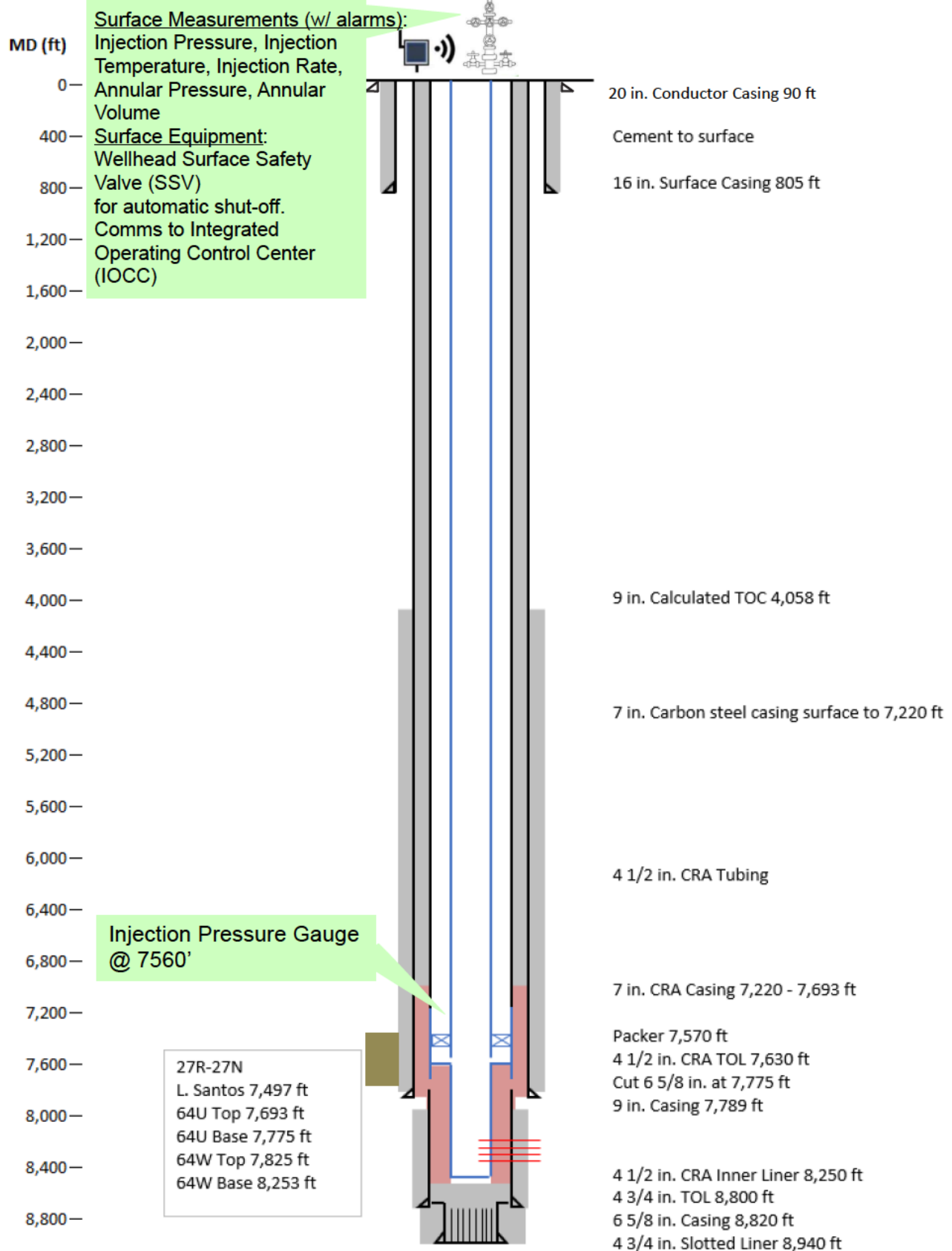
Figure 9. 27-1N Repurposed for Monitoring

Figure 10. 39-26N Repurposed for Monitoring

Figure 11. 35X-27N Repurposed for Monitoring



| | | | | | |
|---|----------------------------------|---------------------|----------------------------------|---|--------------|
| Legend | | Explanation | | New Injection Well for CO₂ Injection | |
|  | Caprock | in. - inch | ft - feet | North Belridge Oil Field Western Kern County California | |
|  | CO ₂ Resistant Cement | MD - Measured Depth | TOC - Top of Cement | | |
|  | Corrosion-Resistant Alloys (CRA) | TOL - Top of Liner | CO ₂ - Carbon Dioxide |  | |
| Note: Well will have Distributed Temperature Sensor monitoring equipment installed. | | | | | |
| | | | | CarbonFrontier | October 2024 |
| | | | | Figure 1 | |



Legend

- Caprock
- CO₂ Resistant Cement
- Corrosion-Resistant Alloys (CRA)

Note:

Well will have Distributed Temperature Sensor monitoring equipment installed.

Explanation

in. - inch
ft - feet
MD - Measured Depth
TOC - Top of Cement
TOL - Top of Liner
CO₂ - Carbon Dioxide

27R-27N Repurposed for CO₂ Injection

North Belridge Oil Field
Western Kern County
California

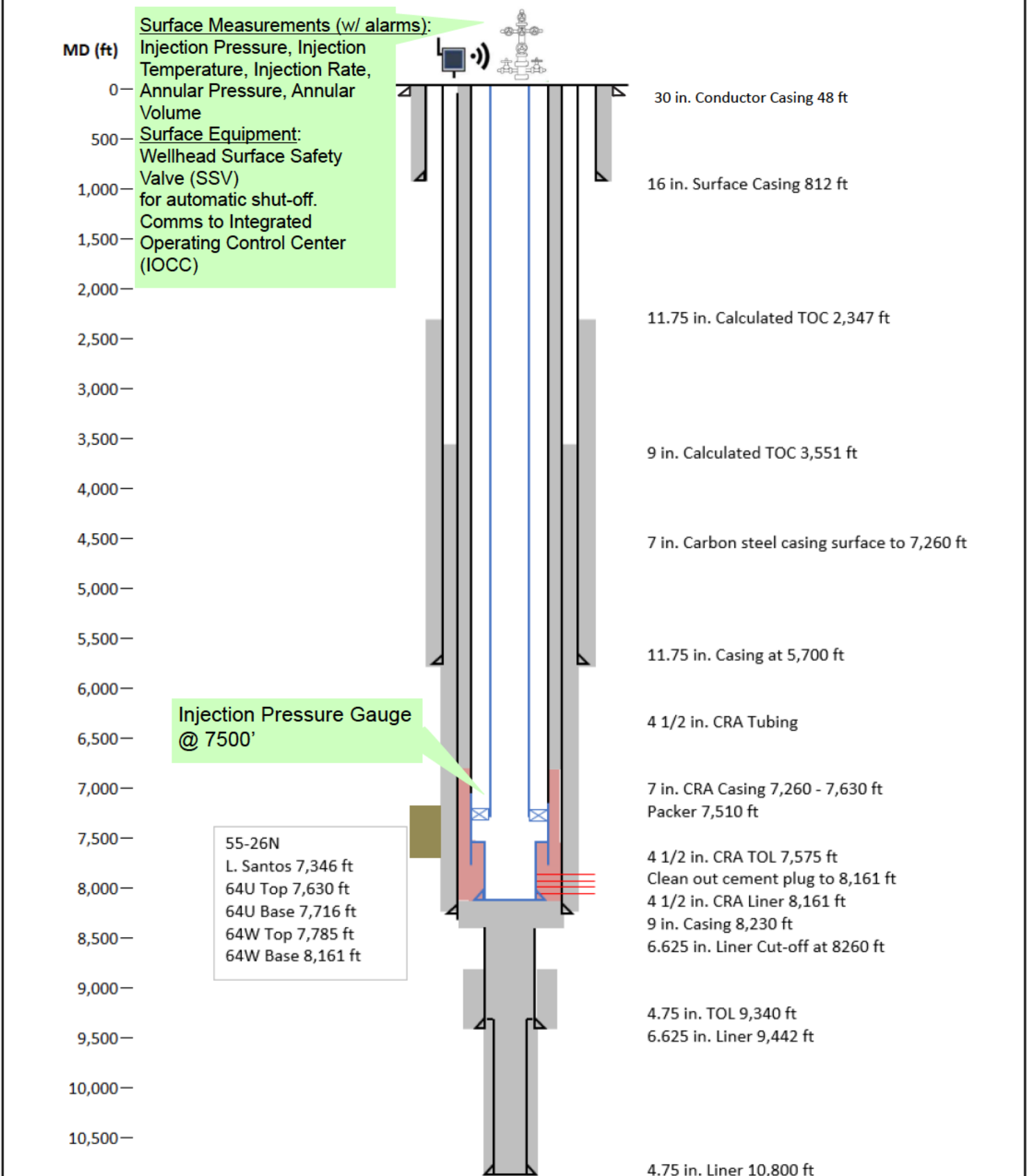


CarbonFrontier

October 2024

Figure

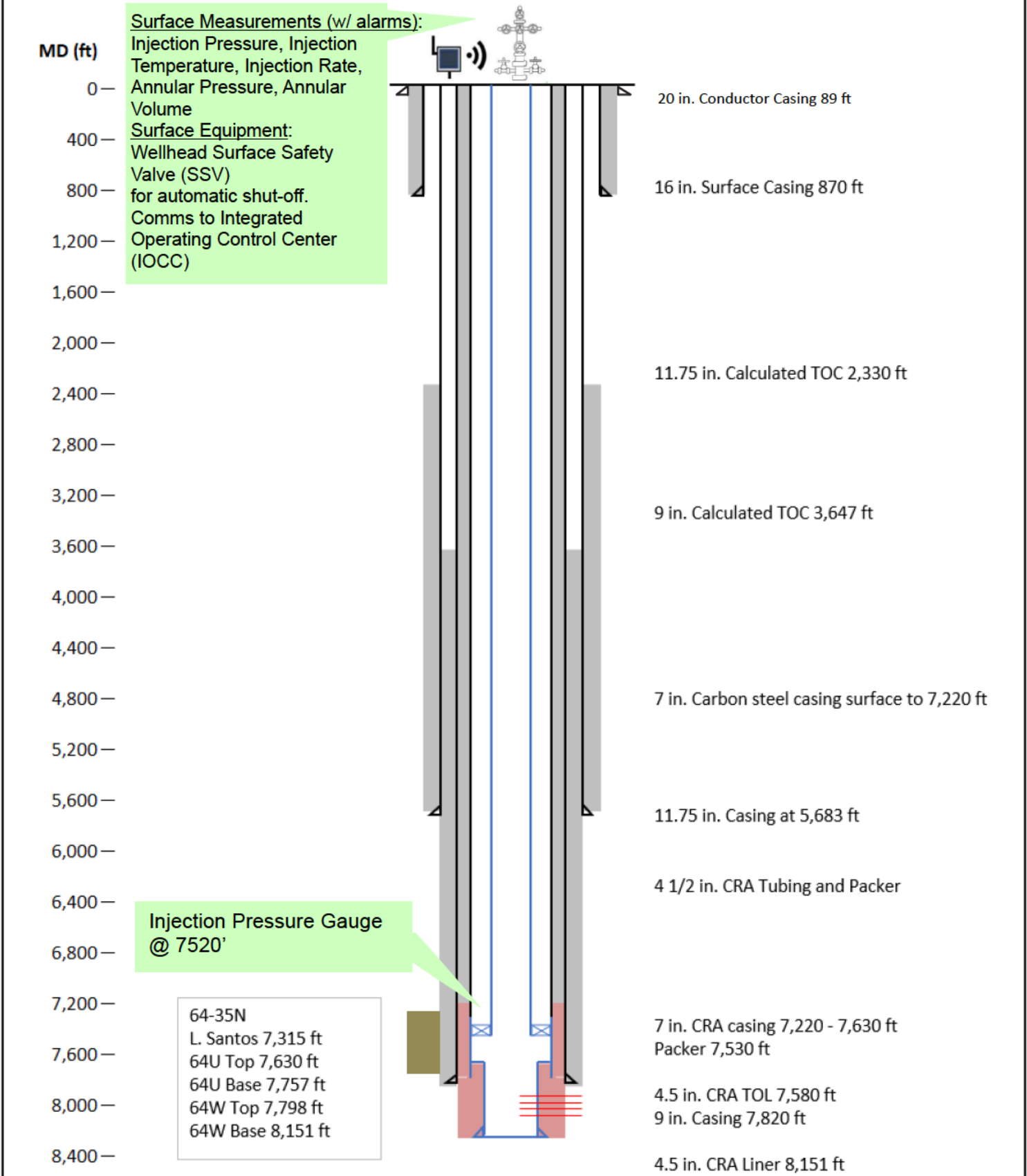
2



| Legend | | Explanation |
|--------|----------------------------------|----------------------------------|
| | Caprock | in. - inch |
| | CO ₂ Resistant Cement | ft - feet |
| | Corrosion-Resistant Alloys (CRA) | MD - Measured Depth |
| | | TOC - Top of Cement |
| | | TOL - Top of Liner |
| | | CO ₂ - Carbon Dioxide |

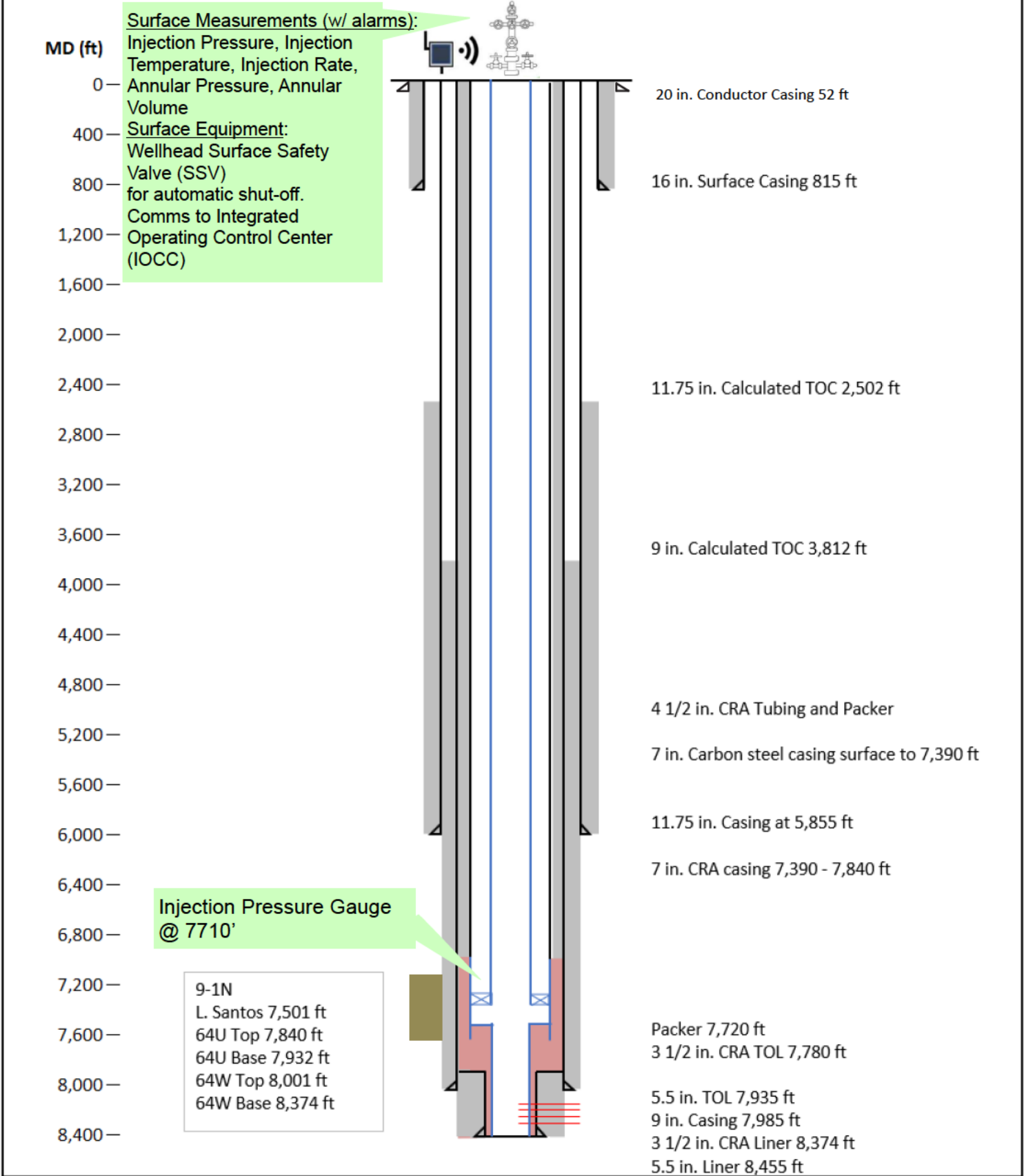
Note:
 Well will have Distributed Temperature Sensor monitoring equipment installed.

| | |
|--|--------------|
| 55-26N Repurposed for CO₂ Injection North Belridge Oil Field Western Kern County California | |
| CarbonFrontier | October 2024 |
| Figure <div style="text-align: center; font-size: 24pt; font-weight: bold;">3</div> | |

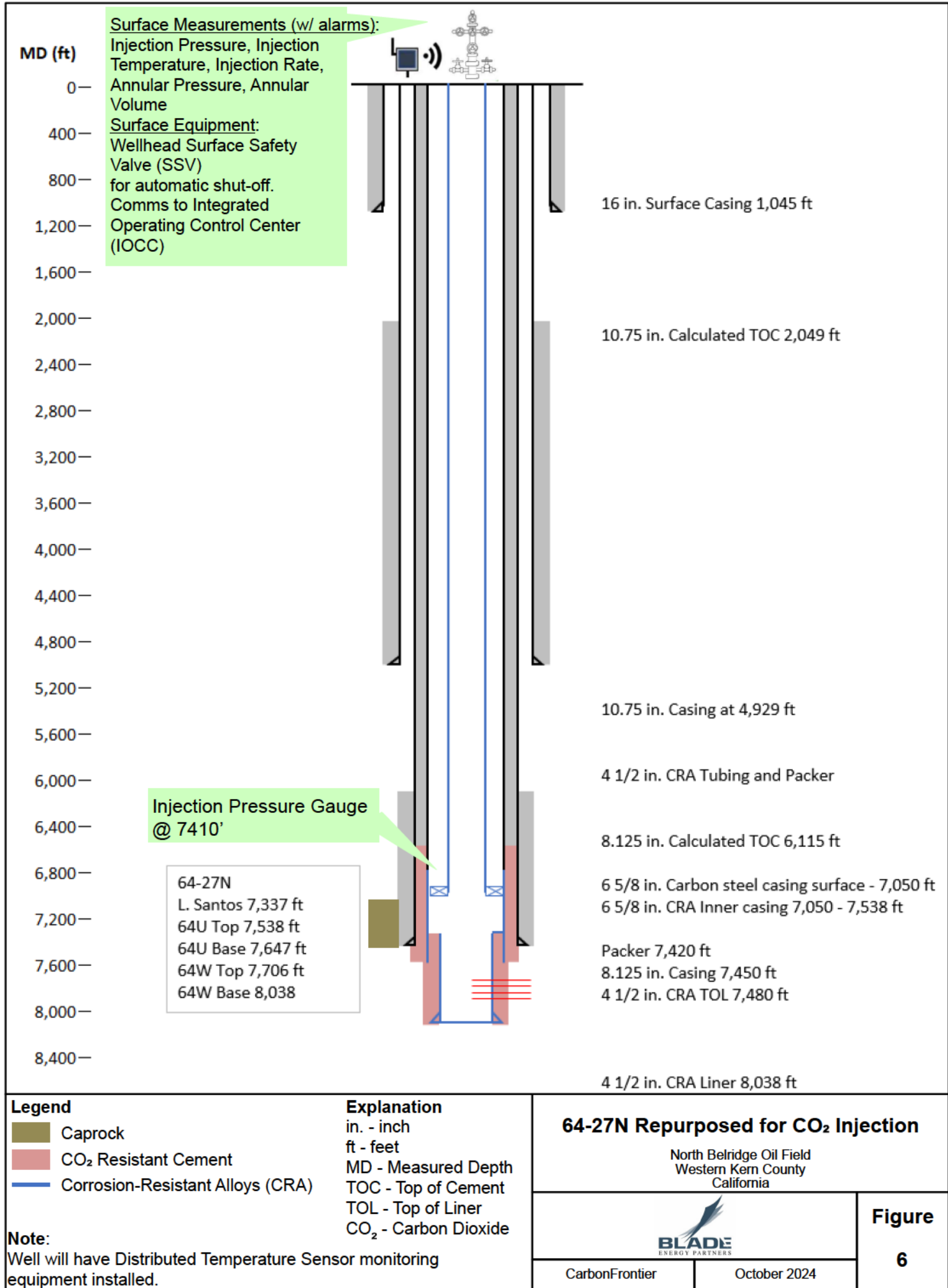


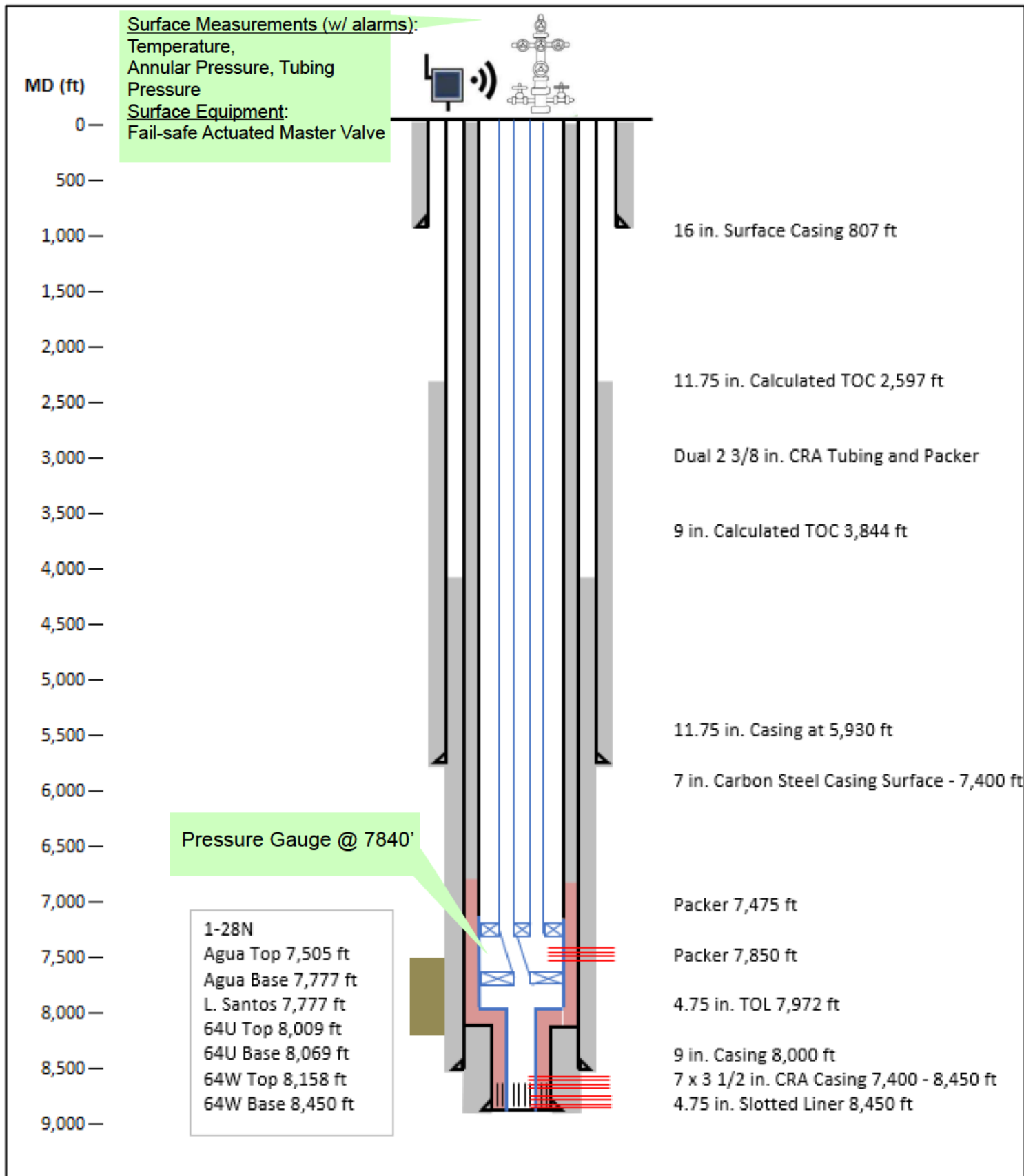
| | | | |
|--|---|--|--------------|
| Legend <div> <div></div> Caprock <div></div> CO₂ Resistant Cement <div></div> Corrosion-Resistant Alloys (CRA) </div> | Explanation in. - inch ft - feet MD - Measured Depth TOC - Top of Cement TOL - Top of Liner CO ₂ - Carbon Dioxide | 64-35N Repurposed for CO₂ Injection North Belridge Oil Field Western Kern County California | |
| | | CarbonFrontier | October 2024 |

Figure
4

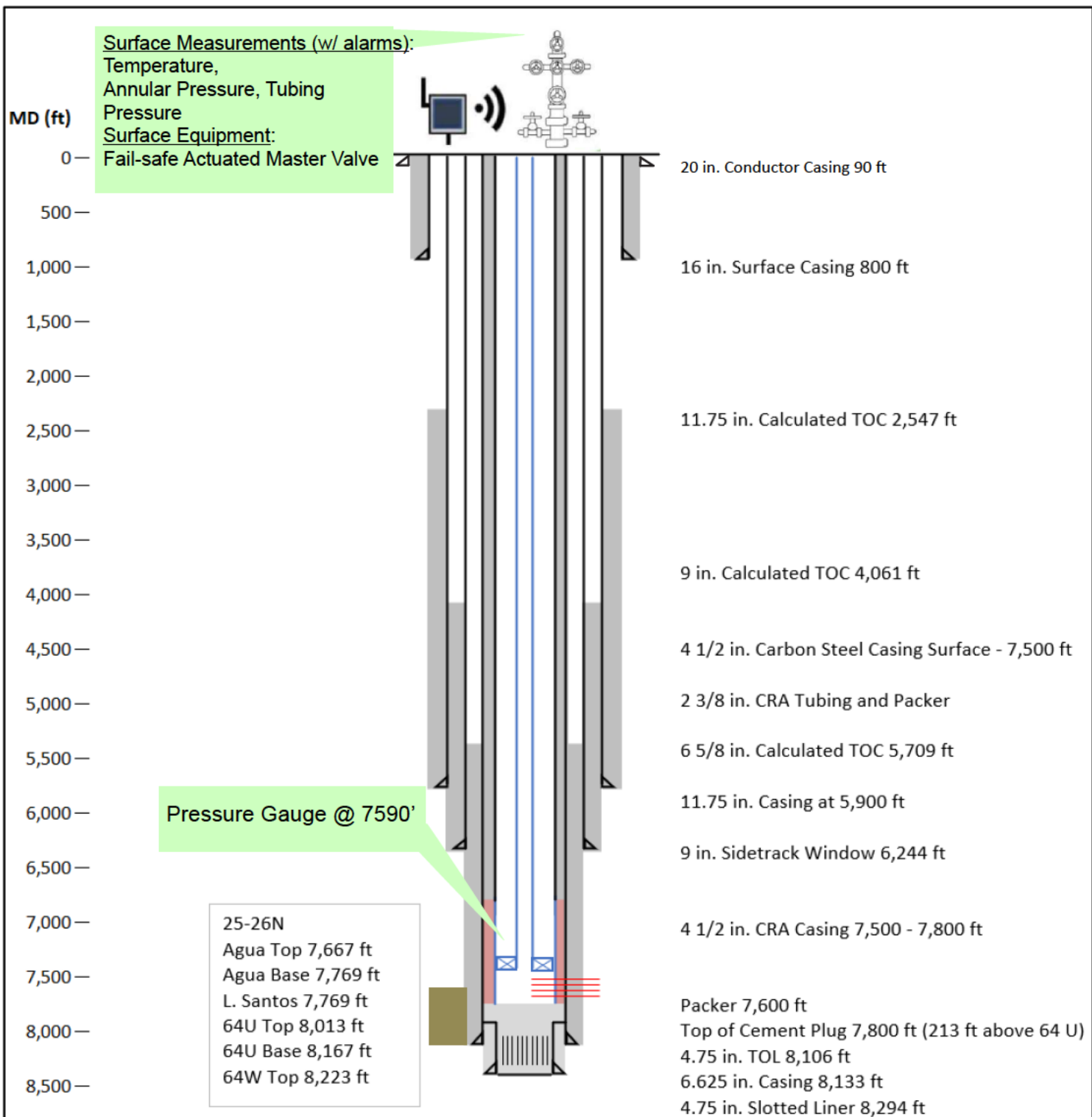


| Legend | | Explanation | | 9-1N Repurposed for CO ₂ Injection | |
|---|----------------------------------|---------------------|----------------------------------|---|----------|
| | Caprock | in. - inch | ft - feet | | |
| | CO ₂ Resistant Cement | MD - Measured Depth | TOC - Top of Cement | <div> <div> </div> <div> CarbonFrontier </div> </div> | |
| | Corrosion-Resistant Alloys (CRA) | MD - Measured Depth | TOC - Top of Cement | | |
| Note: Well will have Distributed Temperature Sensor monitoring equipment installed. | | MD - Measured Depth | TOL - Top of Liner | <div> <div> </div> <div> CarbonFrontier </div> </div> | |
| | | MD - Measured Depth | CO ₂ - Carbon Dioxide | | |
| | | | | October 2024 | Figure 5 |

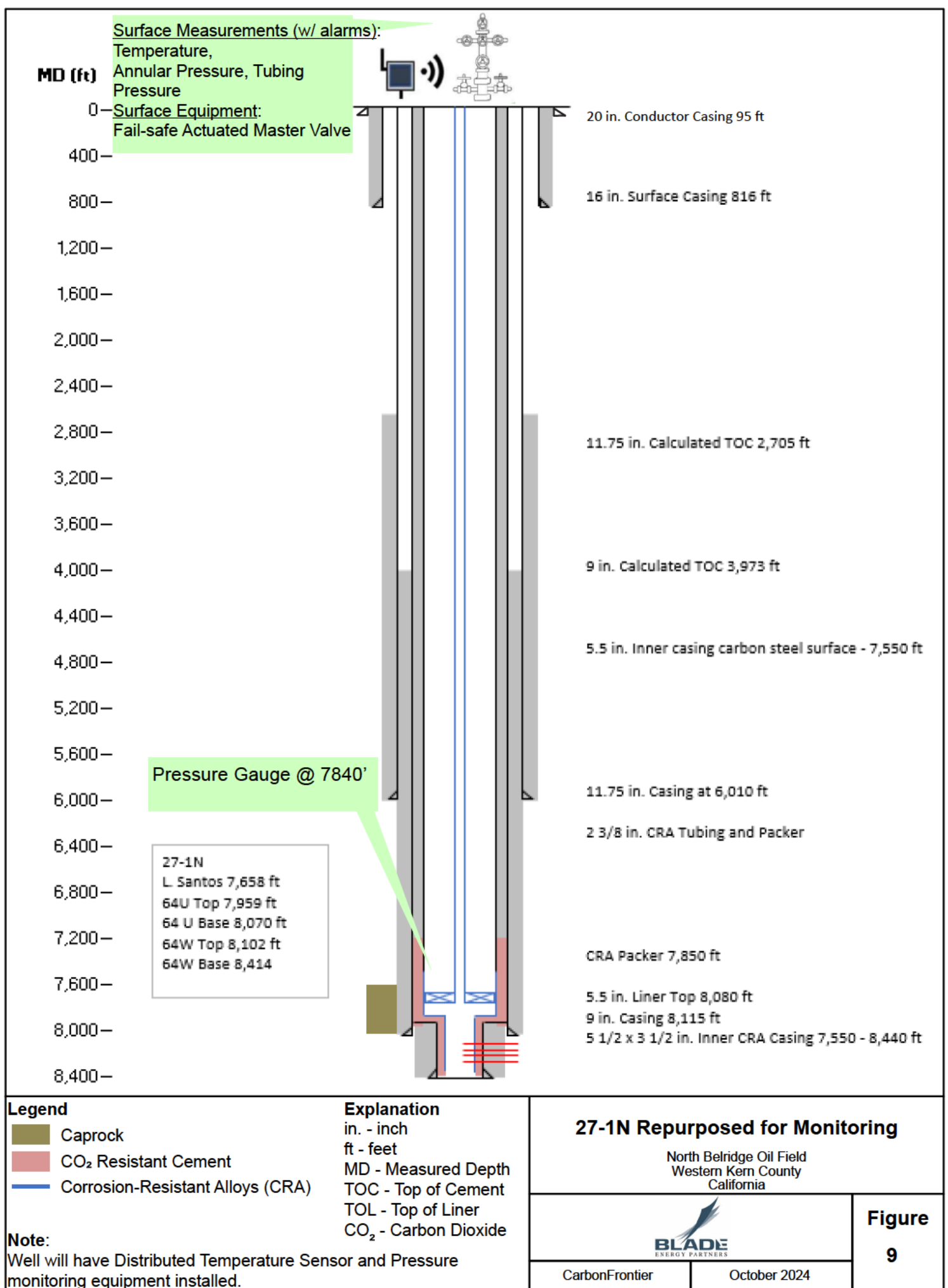


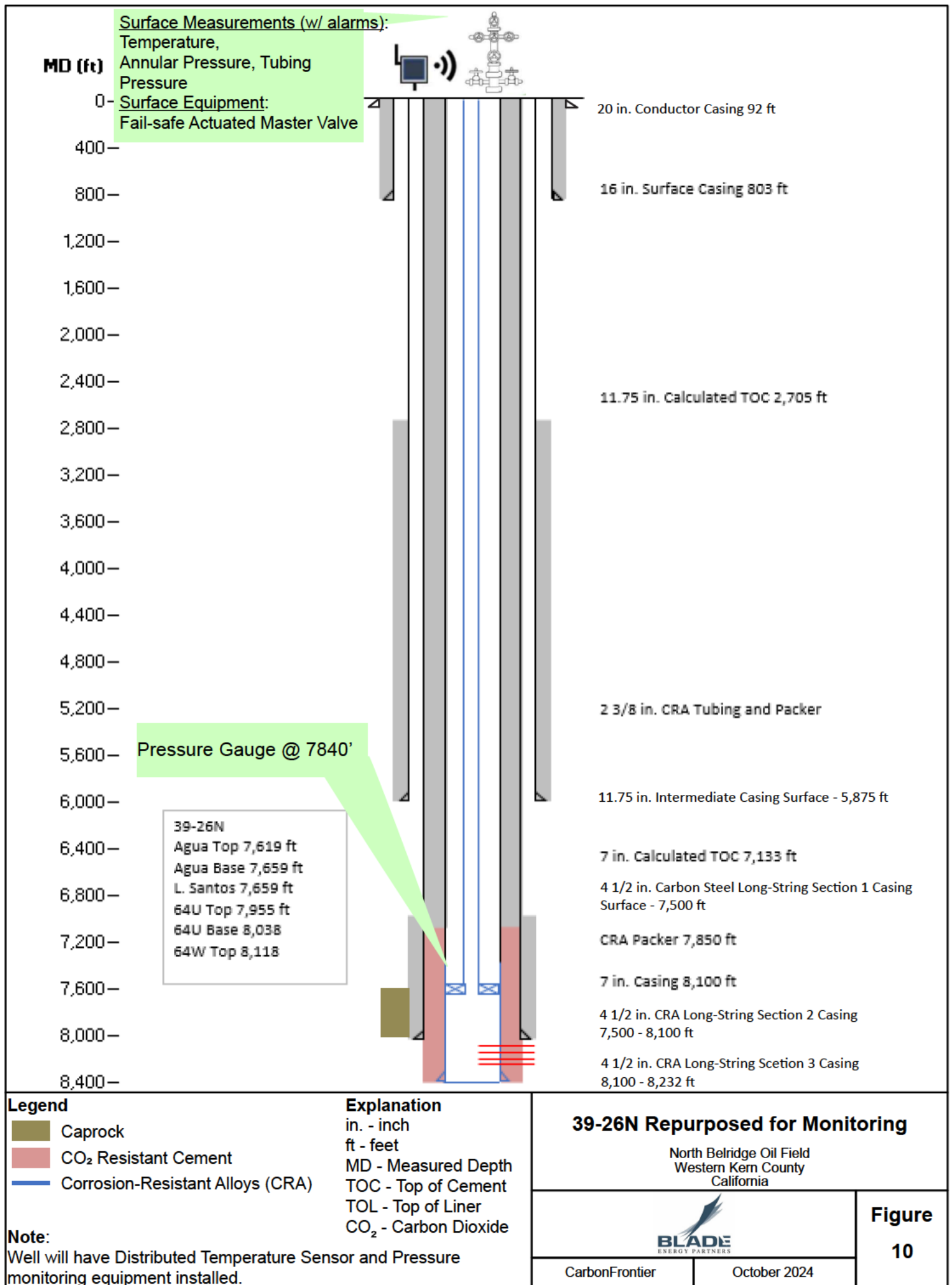


| | | | |
|---|--|--|--|
| <p>Legend</p> <p>Caprock</p> <p>CO₂ Resistant Cement</p> <p>Corrosion-Resistant Alloys (CRA)</p> <p>Note: Well will have Distributed Temperature Sensor and Pressure monitoring equipment installed.</p> | <p>Explanation</p> <p>in. - inch ft - feet MD - Measured Depth TOC - Top of Cement TOL - Top of Liner CO₂ - Carbon Dioxide</p> | <p>1-28N Repurposed for Monitoring</p> <p>North Belridge Oil Field Western Kern County California</p> <p>Figure 7</p> <p>CarbonFrontier October 2024</p> | |
|---|--|--|--|



| Legend | | Explanation | | 25-26N Repurposed for Monitoring | |
|---|----------------------------------|----------------------------------|--|---|--------------|
| | Caprock | in. - inch | | | |
| | CO ₂ Resistant Cement | ft - feet | | North Belridge Oil Field Western Kern County California | |
| | Corrosion-Resistant Alloys (CRA) | MD - Measured Depth | | | |
| Note: Well will have Pressure monitoring equipment installed. | | TOC - Top of Cement | | | |
| | | TOL - Top of Liner | | | |
| | | CO ₂ - Carbon Dioxide | | CarbonFrontier | October 2024 |
| | | | | Figure 8 | |





MD (ft)

Surface Measurements (w/ alarms):

Temperature,
Annular Pressure, Tubing
Pressure

Surface Equipment:

Fail-safe Actuated Master Valve



0
400
800
1,200
1,600
2,000
2,400
2,800
3,200
3,600
4,000
4,400
4,800
5,200
5,600
6,000
6,400
6,800
7,200
7,600
8,000
8,400

20 in. Conductor Casing 90 ft
13 3/8 in. Casing cement to surface
9 5/8 in. TOC unknown
13 3/8 in. Surface Casing 1,027 ft
Estimated 9 5/8 in. TOC 2,335 ft
2 3/8 in. Tubing
9 5/8 in. Casing at 5,608 ft
Packer at 6,450 ft
Top of cement plug 7,050 ft
7 in. Casing at 7,707 ft
6 1/8 in. Hole
Total Depth 7,835 ft

Pressure Gauge @ 6440'

Carneros 6,397 ft
Lower Carneros 6,567 ft
Upper Santos 7,127 ft
Agua 7,169 ft

Lower Santos 7,299 ft
64 U Sand 7,564 ft

Legend

- Caprock
- CO₂ Resistant Cement

Explanation

in. - inch
ft - feet
MD - Measured Depth
TOC - Top of Cement
TOL - Top of Liner
CO₂ - Carbon Dioxide

Note:

Well will have Pressure monitoring equipment installed.

35X-27N Repurposed for Monitoring

North Belridge Oil Field
Western Kern County
California



CarbonFrontier

October 2024

Figure

11