

Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr,°F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	24	20	19.124	94	-	-	2.62	-	-	-
Surface	14' - 2150'	12.25	9.625	8.755	43.5	N-80	Long	2.62	6330	3,810	1,065,350
Long-String	14' - 4676' 4676' - 7525'	8.5	7	6.276	26	L-80 L-80 CRA	Long	2.62	7240	5,410	603,930

Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lb)
3-1/2"	5096'	3.5"	2.992	9.3	L-80 CRA	Premium	10,160	10,530	207,220

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(inches)	(lb/ft)	(inches)	(inches)
Permanent Sealbore Packer, CRA	5066'	30.2	23 - 32	5.687	3.25

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner Diameter
(lbs)	(psi)	(psi)	(inches)	(inches)
200,000	7,500	7,500	6.366	6.049

### Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

## Temperature (DTS) Along wellbore to packer

Temperature (DTS),  
Injection Pressure Gauge  
@ 5,056'

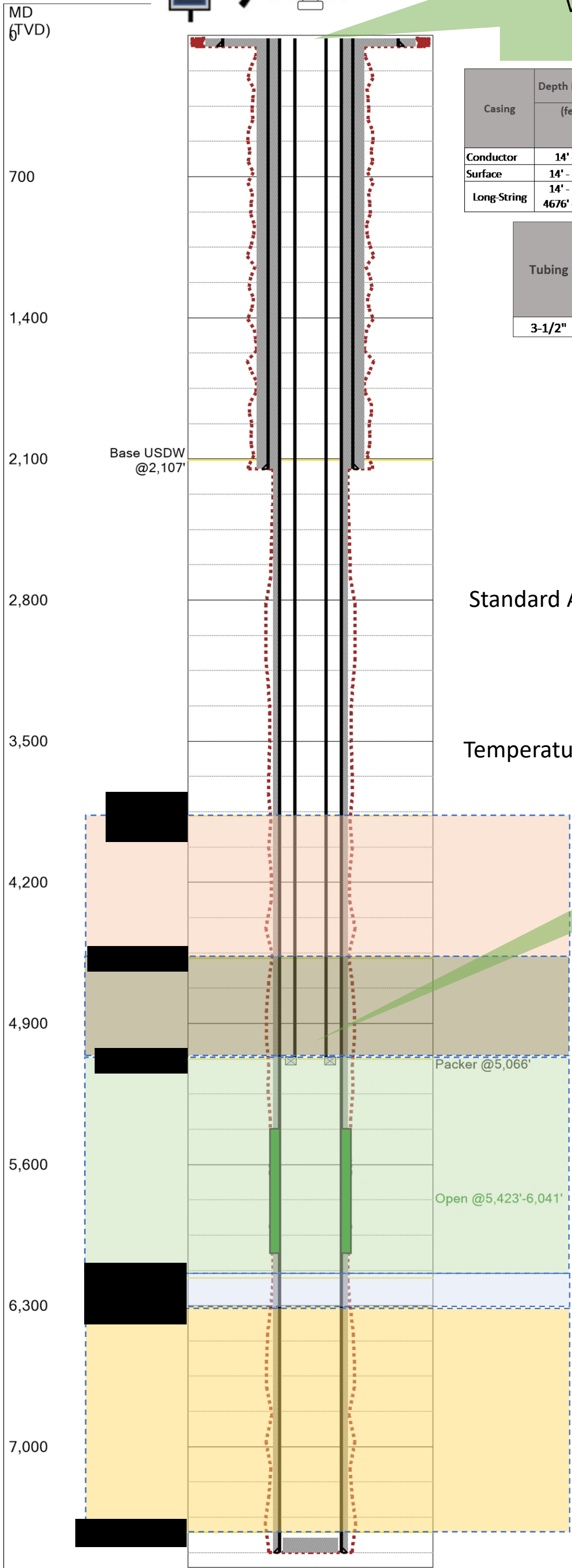
### Above Confining Zone Monitoring Interval

## Upper Confining Zone

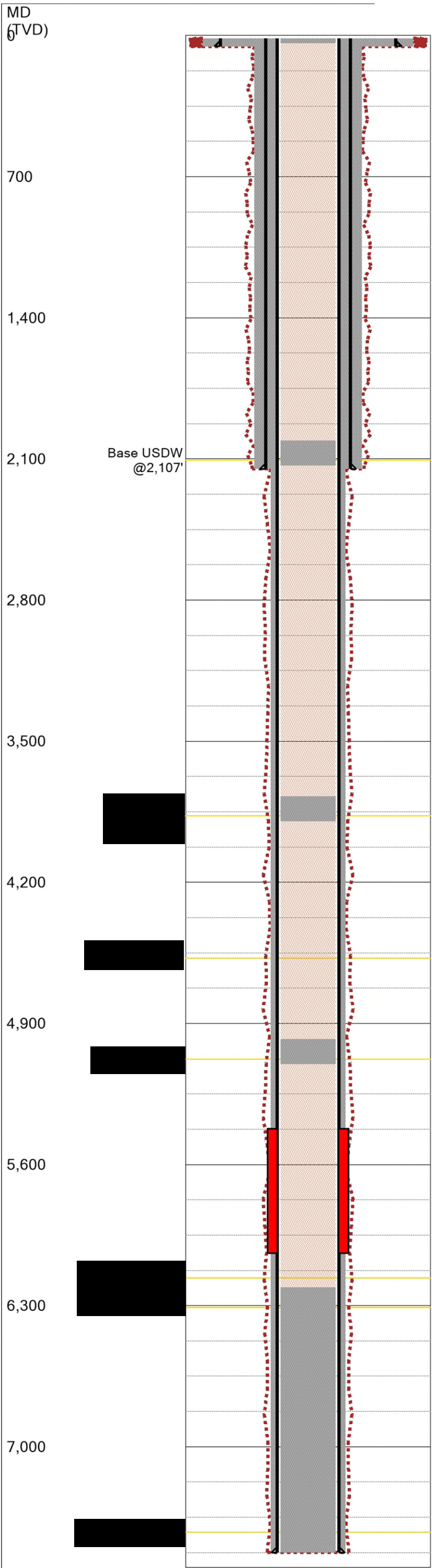
## Upper Injection Zone

## Intermediate Confining Zone

## Lower Injection Zone



**Figure 1. Proposed CO<sub>2</sub> Injection Schematic**

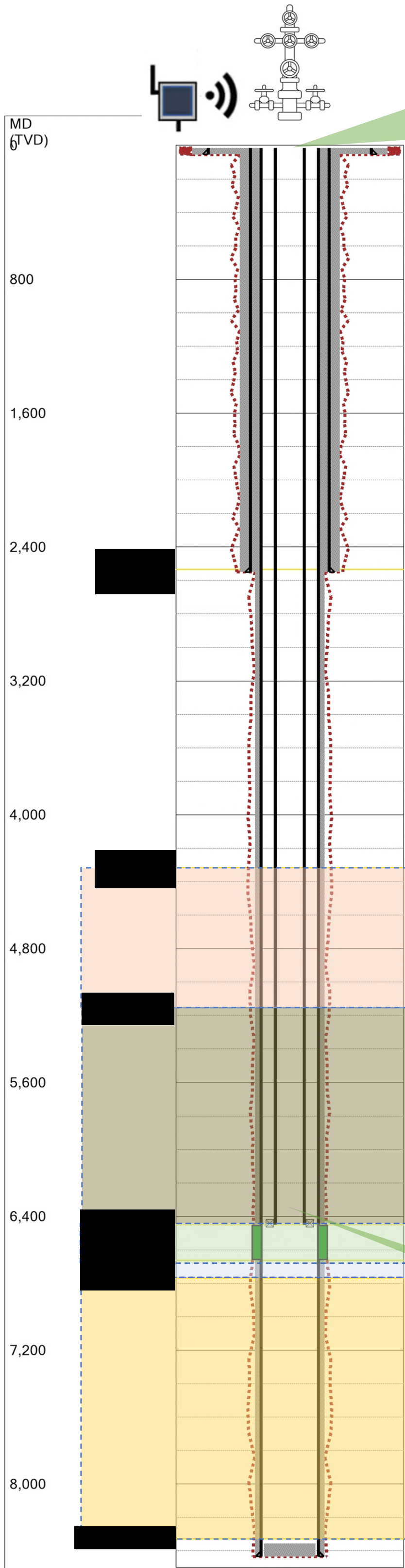


Cut casing 5' below GL. Stamp and weld cap.  
Backfill and reclaim surface location.

Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	7451	5102	3897	2132	39
Cement Volume (sacks)	232	23	23	23	10
Slurry Volume (bbl)	47.52	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6210	4977	3772	2007	14
Bottom of Plug (ft)	7451	5102	3897	2132	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug				

Figure 2. [REDACTED] Proposed Abandonment Schematic





Surface Measurements (w/ alarms on each):  
Injection Pressure, Injection Rate, Annular Pressure, Annular Fluid Volume, Fluid Sampling, Temperature

Surface Equipment:  
Wellhead Surface Safety Valve (SSV) for automatic shut-off  
Comms to Central Control Facility (24-hr monitoring)

Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr, °F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	24	20	19.124	94	-	-	2.62	-	-	-
Surface	14' - 2550'	12.25	9.625	8.755	43.5	N-80	Long	2.62	6330	3,810	1,065,350
Long-String	14' - 6051' 6051' - 8433'	8.5	7	6.276	26	L-80 L-80 CRA	Long	2.62	7240	5,410	603,930

Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lb)
3-1/2"	6450'	3.5"	2.992"	9.3	L-80 CRA	Premium	10160	10,530	207,220

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(inches)	(lb/ft)	(inches)	(inches)
Permanent Sealbore Packer, CRA	6420'	30.3	26 - 32	5.875"	4.00"

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner Diameter
(lbs)	(psi)	(psi)	(inches)	(inches)
200,000	7,500	7,500	6.276	6.095

Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

Temperature (DTS) Along wellbore to packer

Above Confining Zone Monitoring Interval

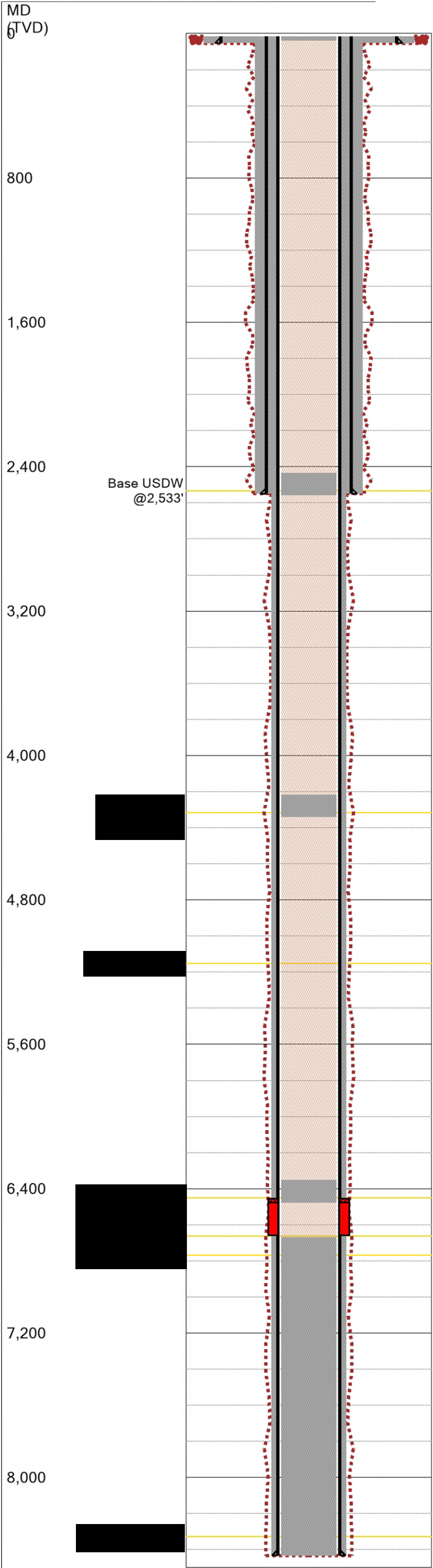
Upper Confining Zone

Upper Injection Zone  
Intermediate Confining Zone

Temperature (DTS),  
Injection Pressure Gauge  
@ 6,410'

Lower Injection Zone

Figure 3. [REDACTED] Proposed CO<sub>2</sub> Injection Schematic

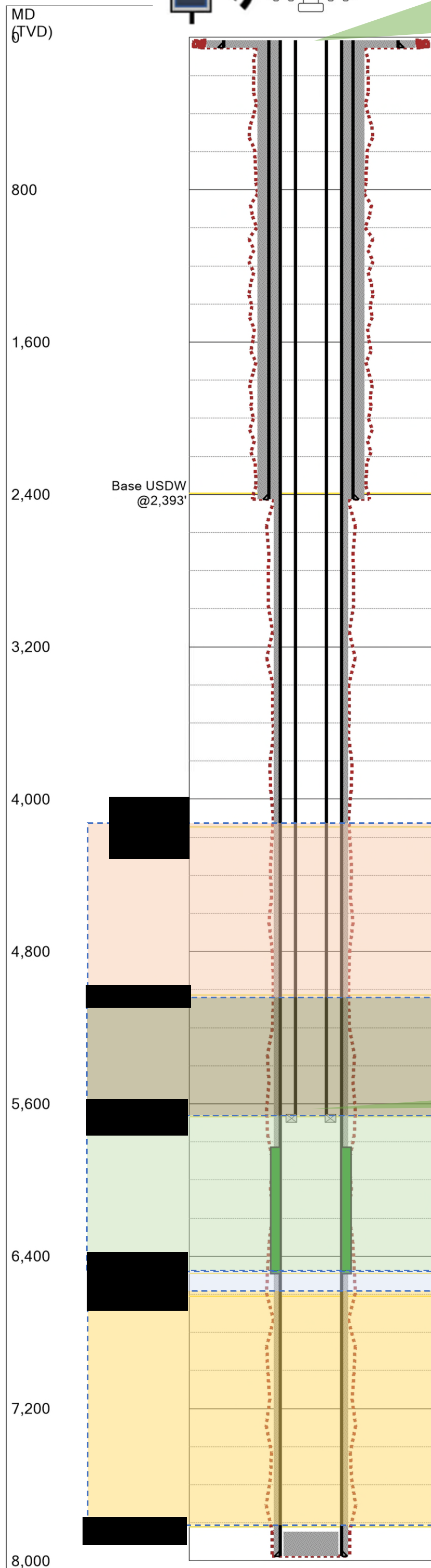
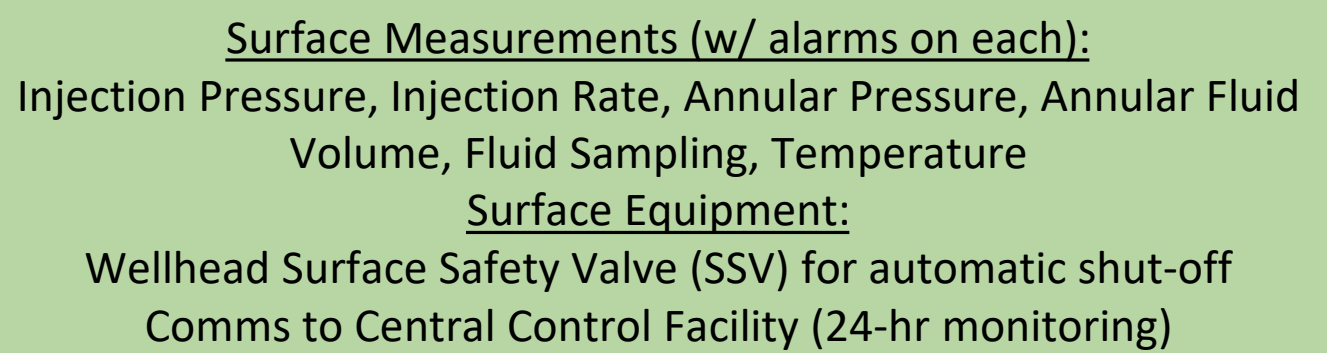


Cut casing 5' below GL. Stamp and weld cap.  
Backfill and reclaim surface location.

Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	8354	6477	4342	2559	39
Cement Volume (sacks)	315	23	23	23	10
Slurry Volume (bbl)	64.51	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6668	6352	4217	2434	14
Bottom of Plug (ft)	8354	6477	4342	2559	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug				

Figure 4. [REDACTED], Proposed Abandonment Schematic





Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lb)
3-1/2"	5685'	3.5"	2.992	9.3	13Cr-L80	Premium	10,160	10,530	207,220

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner
(lbs)	(psi)	(psi)	(inches)	(inches)
<b>200,000</b>	<b>7,500</b>	<b>7,500</b>	<b>6.366</b>	<b>6.049</b>

Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

### Temperature (DTS) Along wellbore to packer

Above Confining Zone Monitoring Interval

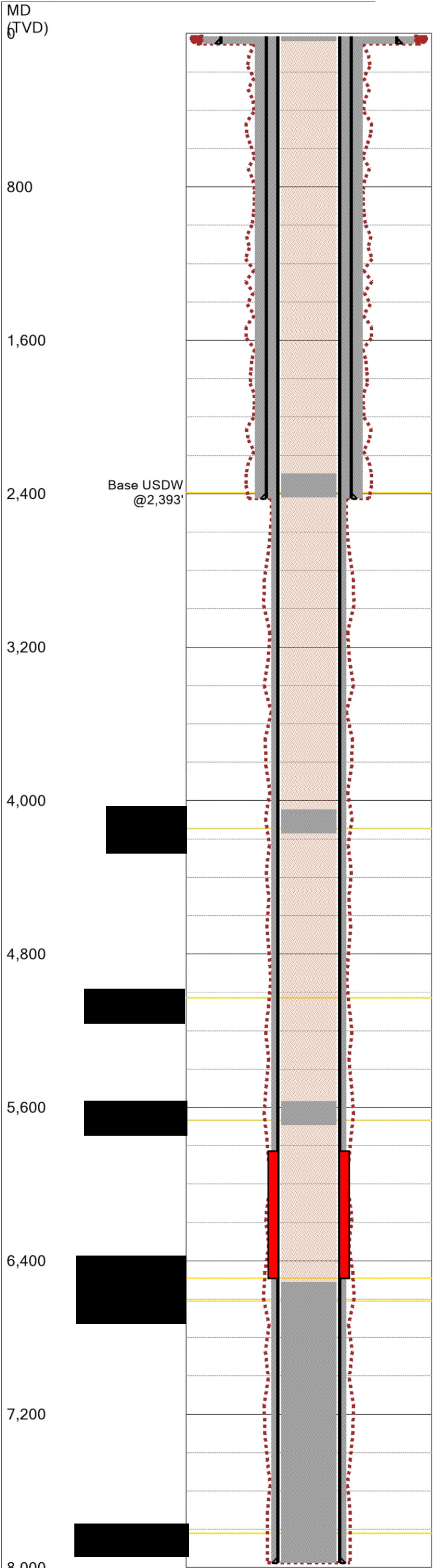
Upper Confining Zone  
Temperature (DTS),  
Injection Pressure Gauge  
@ 5,645'

## Upper Injection Zone

### Intermediate Confining Zone

### Lower Injection Zone

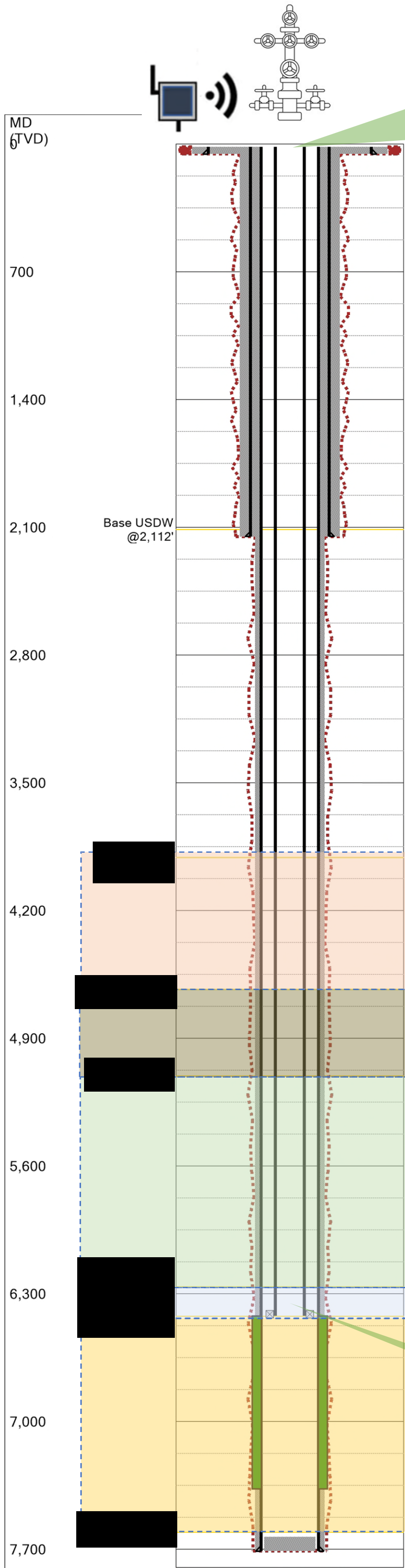
**Figure 5.** [REDACTED], Proposed CO<sub>2</sub> Injection Schematic



Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	7846	5691	4172	2418	39
Cement Volume (sacks)	249	23	23	23	10
Slurry Volume (bbl)	51.00	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6511	5566	4047	2293	14
Bottom of Plug (ft)	7846	5691	4172	2418	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug				

Figure 6. [REDACTED] Proposed Abandonment Schematic





Surface Measurements (w/ alarms on each):  
Injection Pressure, Injection Rate, Annular Pressure, Annular Fluid Volume, Fluid Sampling, Temperature

Surface Equipment:  
Wellhead Surface Safety Valve (SSV) for automatic shut-off  
Comms to Central Control Facility (24-hr monitoring)

Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr, °F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	24	20	19.124	94	-	-	2.62	-	-	-
Surface	14' - 2150'	12.25	9.625	8.755	43.5	N-80	Long	2.62	6330	3,810	1,065,350
Long-String	14' - 4705' 4705' - 7709'	8.5	7	6.276	26	L-80 L-80 CRA	Long	2.62	7240	5,410	603,930

Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lb)
3-1/2"	6420'	3.5"	2.992"	9.3	L-80 CRA	Premium	10160	10,530	207,220

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(inches)	(lb/ft)	(inches)	(inches)
Permanent Sealbore Packer, CRA	6390'	30.3	26 - 32	5.875"	4.00"

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner
(lbs)	(psi)	(psi)	(inches)	(inches)
200,000	7,500	7,500	6.276	6.095

Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

Temperature (DTS) Along wellbore to packer

Above Confining Zone Monitoring Interval

Upper Confining Zone

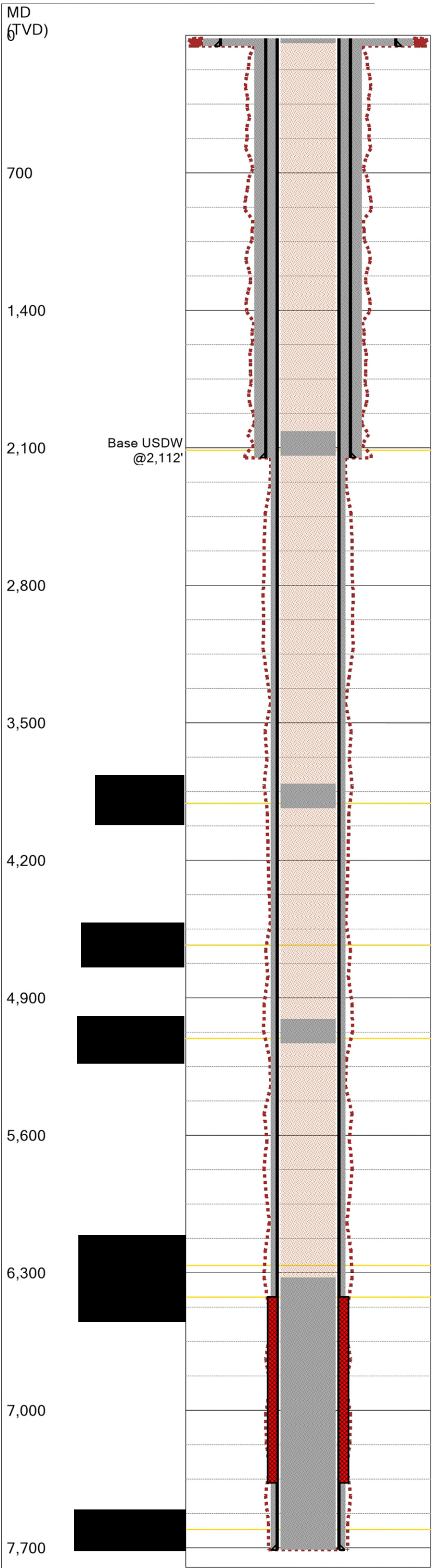
Upper Injection Zone

Intermediate Confining Zone

Lower Injection Zone

Temperature (DTS),  
Injection Pressure Gauge  
@ 6,380'

Figure 7. [REDACTED] Proposed CO<sub>2</sub> Injection Schematic

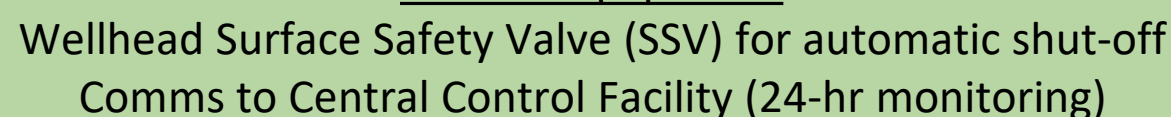


Cut casing 5' below GL. Stamp and weld cap.  
Backfill and reclaim surface location.

Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	7632	5131	3933	2138	39
Cement Volume (sacks)	245	23	23	23	10
Slurry Volume (bbl)	50.18	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6321	5006	3808	2013	14
Bottom of Plug (ft)	7632	5131	3933	2138	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug				

Figure 8. [Redacted] Proposed Abandonment Schematic

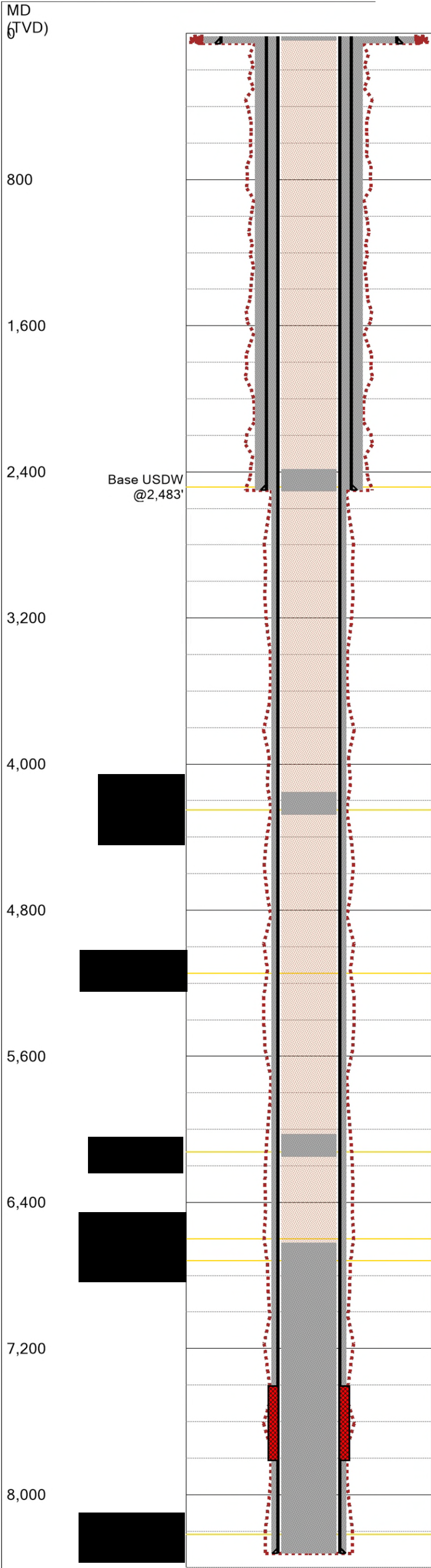




Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner
(lbs)	(psi)	(psi)	(inches)	(inches)
200,000	7,500	7,500	6.366	6.049

### Lower Injection Zone

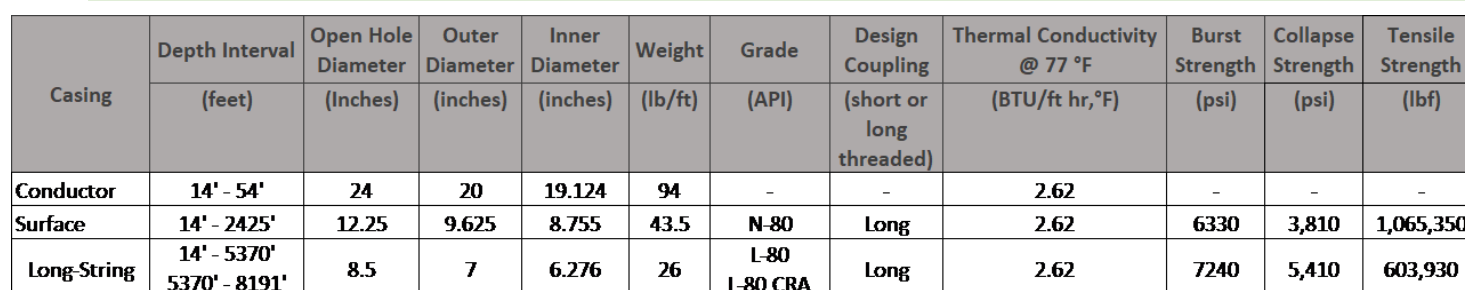
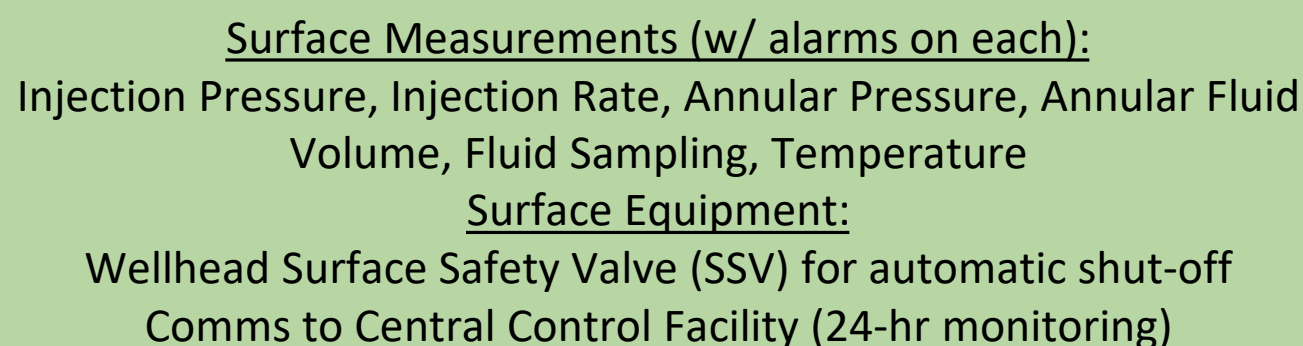




Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	8244	6150	4277	2508	39
Cement Volume (sacks)	304	23	23	23	10
Slurry Volume (bbl)	62.26	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6619	6025	4152	2383	14
Bottom of Plug (ft)	8244	6150	4277	2508	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug				

Figure 10.  Proposed Abandonment Schematic





Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lb)
3-1/2"	6853'	3.5"	2.992	9.3	L-80 CRA	Premium	10,160	10,530	207,220

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(inches)	(lb/ft)	(inches)	(inches)
<b>Permanent Sealbore Packer. CRA</b>	<b>6823'</b>	<b>30.2</b>	<b>23 - 32</b>	<b>5.687</b>	<b>3.25</b>

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner
(lbs)	(psi)	(psi)	(inches)	(inches)
200,000	7,500	7,500	6.366	6.049

Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

### Temperature (DTS) Along wellbore to packer

Above Confining Zone Monitoring Interval

Upper Confining Zone

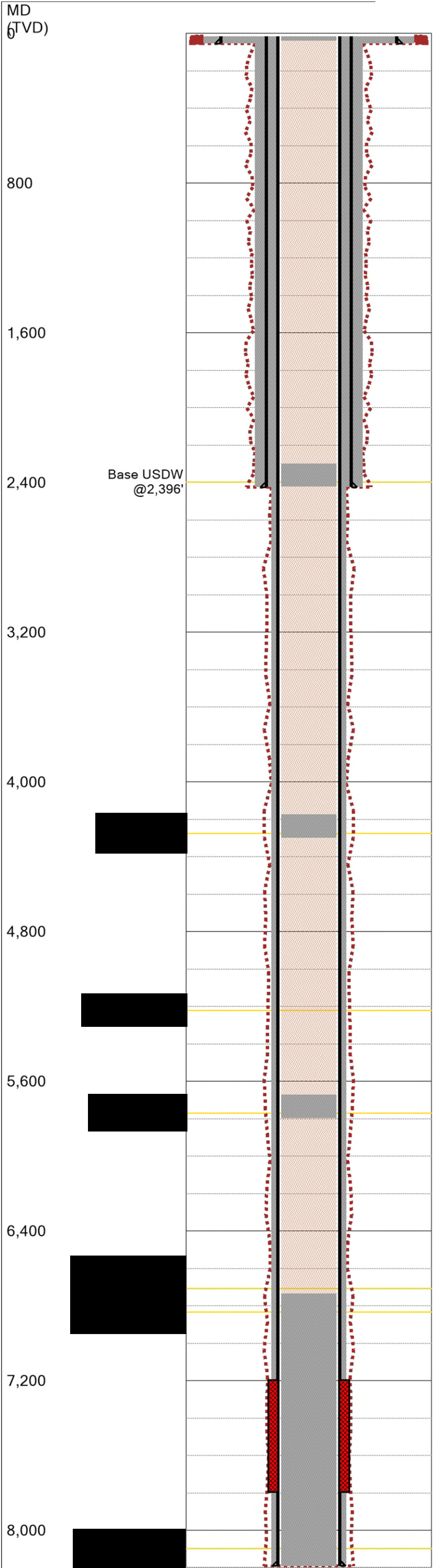
## Upper Injection Zone

### Intermediate Confining Zone

### Lower Injection Zone

Temperature (DTS),  
Injection Pressure Gauge  
@ 6,813'

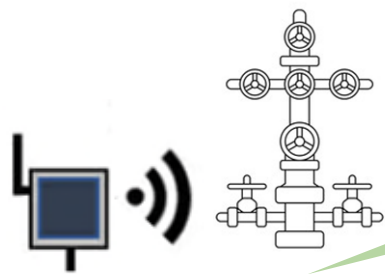
**Figure 11. [REDACTED] Proposed CO<sub>2</sub> Injection Schematic**



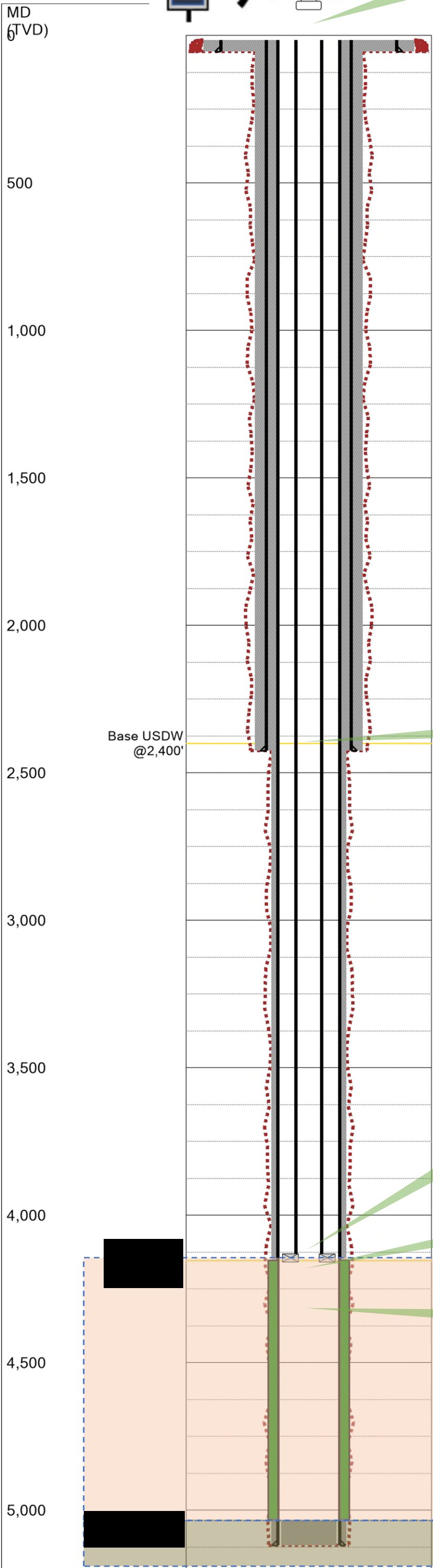
Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	8122	5796	4299	2422	39
Cement Volume (sacks)	259	23	23	23	10
Slurry Volume (bbl)	53.05	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6734	5671	4174	2297	14
Bottom of Plug (ft)	8122	5796	4299	2422	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug				

Figure 12. [REDACTED], Proposed Abandonment Schematic





Surface Measurements (w/ alarms on each):  
Annular Pressure, Fluid Sampling  
Surface Equipment:  
Comms to Central Control Facility (24-hr monitoring)



Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr, °F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	24	20	19.124	94	-	-	2.62	-	-	-
Surface	14' - 2425'	12.25	9.625	8.755	43.5	N-80	Long	2.62	6330	3,810	1,065,350
Long-String	14' - 5119'	8.5	7	6.366	23	L-80	Long	2.62	6340	5,410	603,930

Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lbf)
2-7/8"	4160'	2.875	2.441	6.5	L-80	Premium	10,570	11,170	144,960

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(inches)	(lb/ft)	(inches)	(inches)
Mechanical, Low Carbon Alloy Steel	4130'	95.4	23 - 29	6	2.37

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner
(lbs)	(psi)	(psi)	(inches)	(inches)
100,000	8000	8000	6.466	6.184

Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

Temperature (DTS) @ 2,399'

Temperature (DTS),  
Tubing Pressure (Gauge)  
@ 4,120'

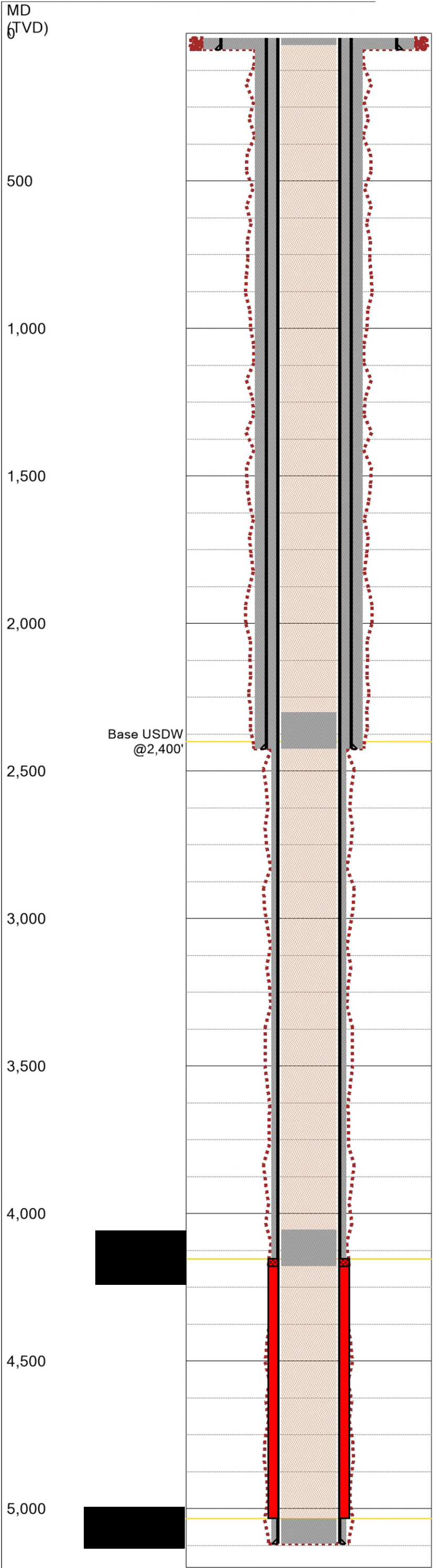
Temperature (DTS) @ 4,153'

Fluid Sampling @ 4,153'-4,353'

Above Confining Zone Monitoring Interval

Upper Confining Zone

Figure 13. [Redacted], Proposed Monitoring Schematic

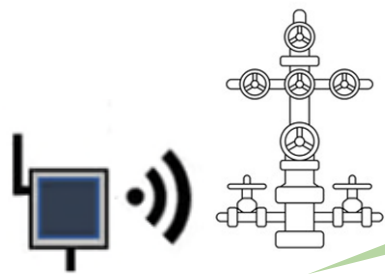


Cut casing 5' below GL. Stamp and weld cap.  
Backfill and reclaim surface location.

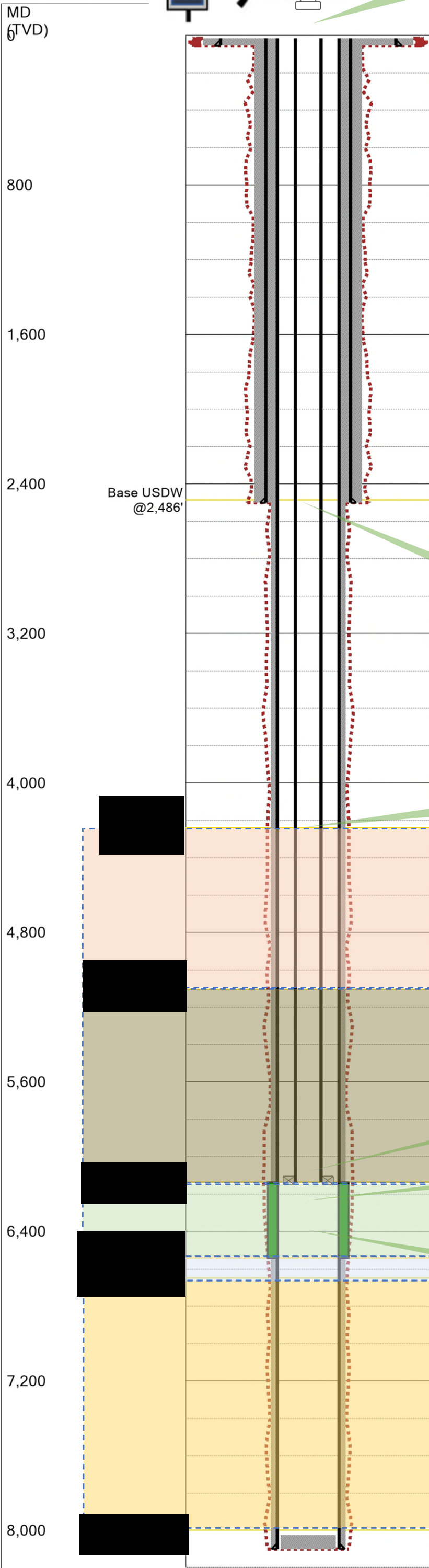
Well			
Plugs	Plug 1	Plug 2	Plug 3
Hole Size (in.)	6.276	6.276	6.276
Bottom of tubing (ft)	4178	2425	39
Cement Volume (sacks)	23	23	10
Slurry Volume (bbl)	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8
Top of plug (ft)	4053	2300	14
Bottom of Plug (ft)	4178	2425	39
Type of Cement	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug		

Figure 14. [REDACTED] Proposed Abandonment Schematic





Surface Measurements (w/ alarms on each):  
Annular Pressure, Fluid Sampling  
Surface Equipment:  
Comms to Central Control Facility (24-hr monitoring)



Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(Inches)	(Inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr, °F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	24	20	19.124	94	-	-	2.62	-	-	-
Surface	14' - 2500'	12.25	9.625	8.755	43.5	N-80	Long	2.62	6330	3,810	1,065,350
Long-String	14' - 5736'	8.5	7	6.276	26	L-80 L-80 CRA	Long	2.62	7240	5,410	603,930

Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(Inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lbf)
2-7/8"	6136'	2.875	2.441	6.5	L-80 CRA	Premium	10,570	11,170	144,960

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(Inches)	(lb/ft)	(Inches)	(Inches)
Permanent Sealbore Packer, CRA	6106'	30.2	23 - 32	5.687	3.25

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner
(lbs)	(psi)	(psi)	(Inches)	(Inches)
200,000	7,500	7,500	6.366	6.049

Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

Temperature (DTS) @ 2,486'

Temperature (DTS) @ 4,240'

Above Confining Zone Monitoring Interval

Temperature (DTS),  
Tubing Pressure (Gauge)  
@ 6,096'

Upper Confining Zone

Fluid Sampling @ 6,137'-6,237'

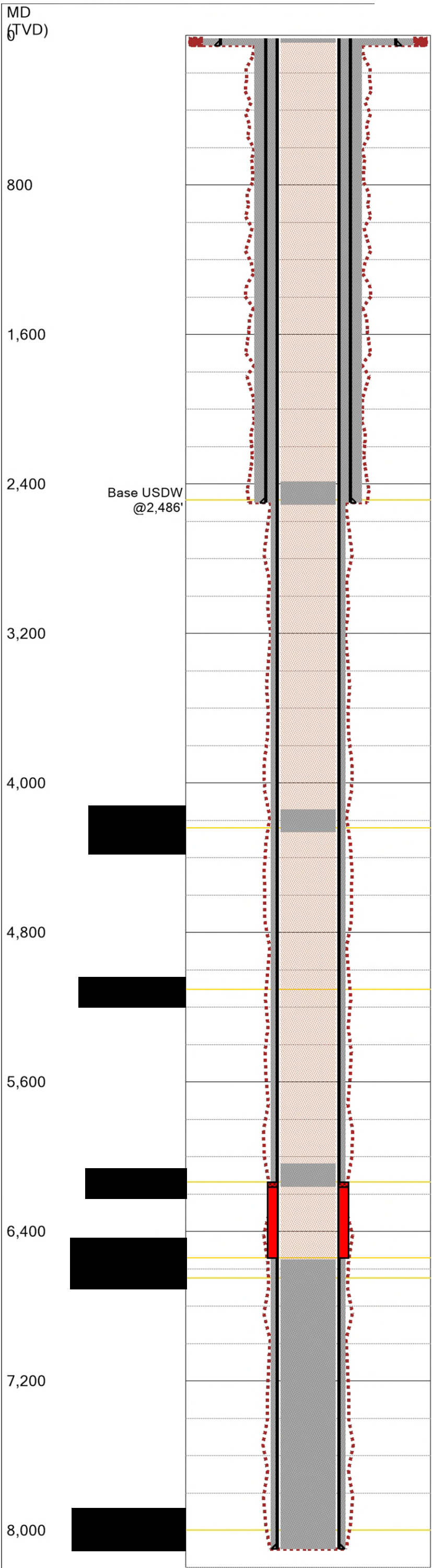
Upper Injection Zone

Intermediate Confining Zone

Lower Injection Zone

Temperature (DTS),  
Tubing Pressure (Gauge)  
@ 6,137'-6,542'

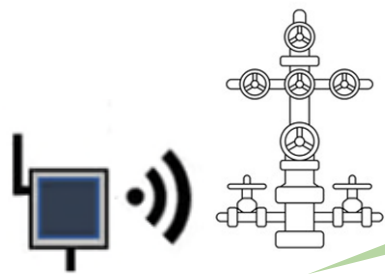
Figure 15. [Redacted], Proposed Monitoring Schematic



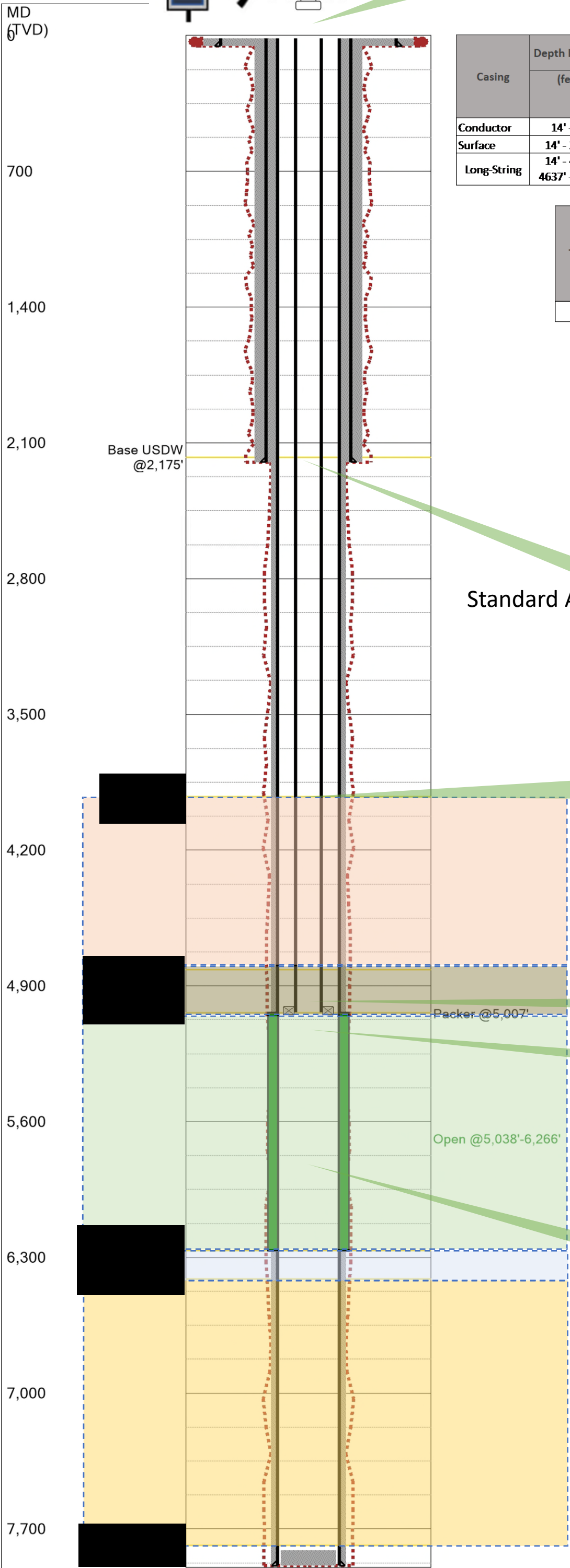
Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	8025	6162	4265	2512	39
Cement Volume (sacks)	275	23	23	23	10
Slurry Volume (bbl)	56.32	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6551	6037	4140	2387	14
Bottom of Plug (ft)	8025	6162	4265	2512	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug				

Figure 16. [REDACTED] Proposed Abandonment Schematic





Surface Measurements (w/ alarms on each):  
Annular Pressure, Fluid Sampling  
Surface Equipment:  
Comms to Central Control Facility (24-hr monitoring)



Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr, °F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	24	20	19.124	94	-	-	2.62	-	-	-
Surface	14' - 2200'	12.25	9.625	8.755	43.5	N-80	Long	2.62	6330	3,810	1,065,350
Long-String	14' - 4637'	8.5	7	6.276	26	L-80 L-80 CRA	Long	2.62	7240	5,410	603,930
	4637' - 7889'										

Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lbf)
2-7/8"	5037'	2.875	2.441	6.5	L-80 CRA	Premium	10,570	11,170	144,960

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(inches)	(lb/ft)	(inches)	(inches)
Permanent Sealbore Packer, CRA	5007'	30.2	23 - 32	5.687	3.25

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner
(lbs)	(psi)	(psi)	(inches)	(inches)
200,000	7,500	7,500	6.366	6.049

Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

Temperature (DTS) @ 2,174'

Temperature (DTS) @ 3,925'

Above Confining Zone Monitoring Interval

Temperature (DTS),  
Tubing Pressure (Gauge) @ 4,997'

Upper Confining Zone

Fluid Sampling @ 5,038'-5,138'

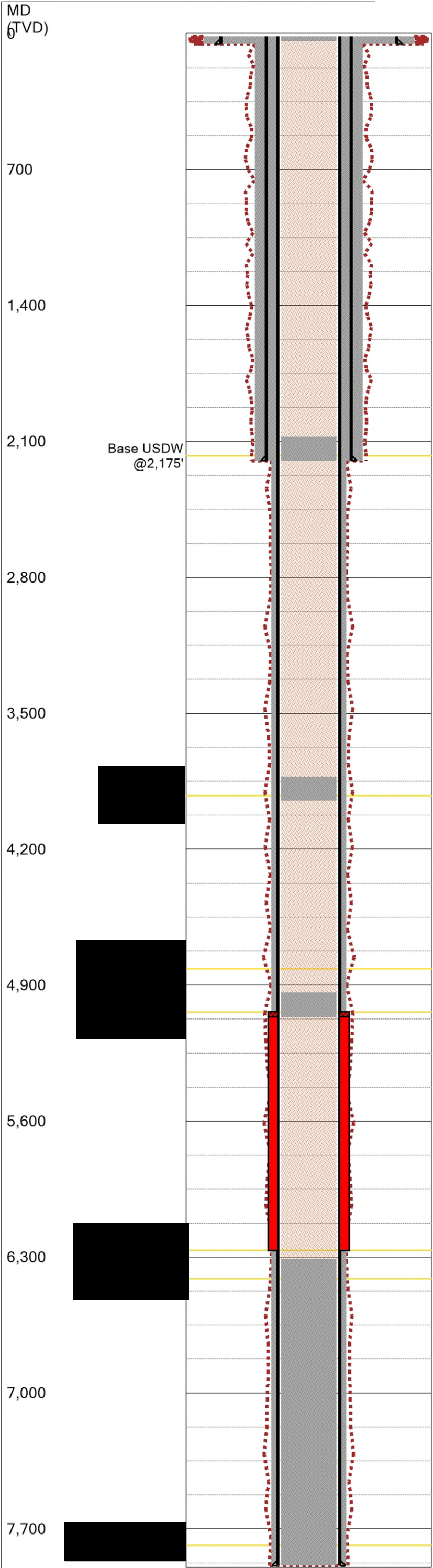
Upper Injection Zone

Intermediate Confining Zone

Temperature (DTS),  
Tubing Pressure (Gauge) @ 5,038'-6,265'

Lower Injection Zone

Figure 17. [Redacted], Proposed Monitoring Schematic

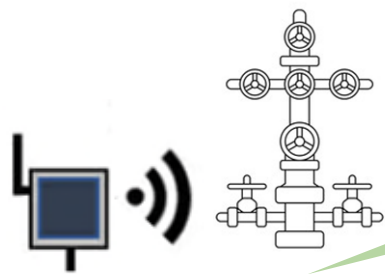


Cut casing 5' below GL. Stamp and weld cap.  
Backfill and reclaim surface location.

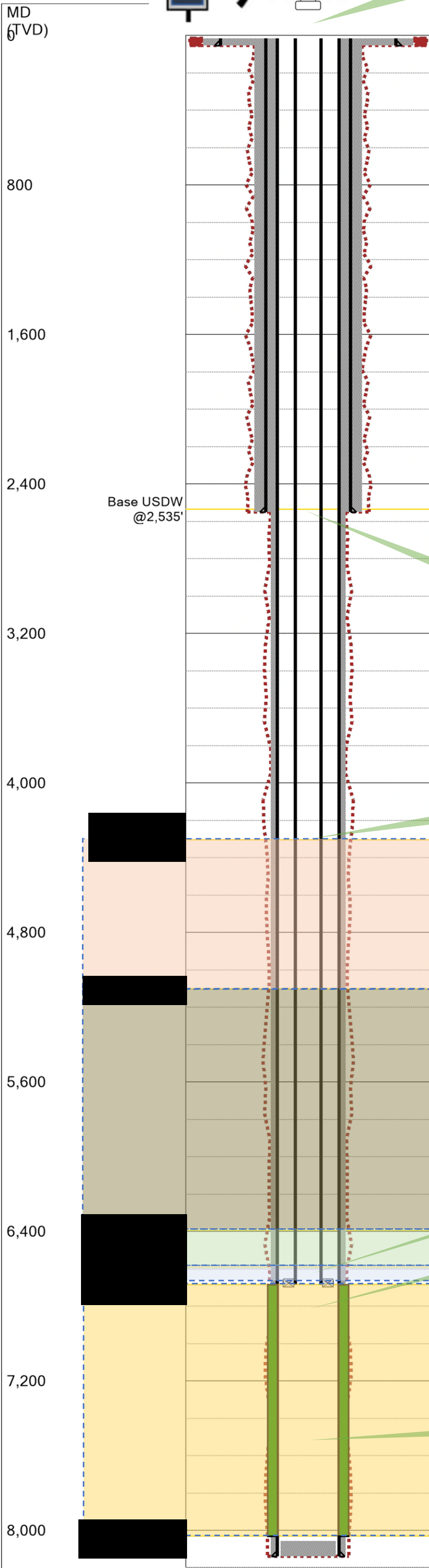
Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	7809	5063	3950	2200	39
Cement Volume (sacks)	280	23	23	23	10
Slurry Volume (bbl)	57.35	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6311	4938	3825	2075	14
Bottom of Plug (ft)	7809	5063	3950	2200	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug				

Figure 18. [REDACTED], Proposed Abandonment Schematic





Surface Equipment:  
Comms to Central Control Facility (24-hr monitoring)



Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr, °F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	24	20	19.124	94	-	-	2.62	-	-	-
Surface	14' - 2550'	12.25	9.625	8.755	43.5	N-80	Long	2.62	6330	3,810	1,065,350
Long-String	14' - 5994'	8.5	7	6.276	26	L-80 L-80 CRA	Long	2.62	7240	5,410	603,930

Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lbf)
2-7/8"	6685'	2.875	2.441	6.5	L-80 CRA	Premium	10,570	11,170	144,960

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(inches)	(lb/ft)	(inches)	(inches)
Permanent Sealbore Packer, CRA	6655'	30.2	23 - 32	5.687	3.25

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner
(lbs)	(psi)	(psi)	(inches)	(inches)
200,000	7,500	7,500	6.366	6.049

Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

Temperature (DTS) @ 2,534'

Temperature (DTS) @ 4,304'

Above Confining Zone Monitoring Interval

Temperature (DTS),  
Tubing Pressure (Gauge)  
@ 6,645'

Upper Confining Zone

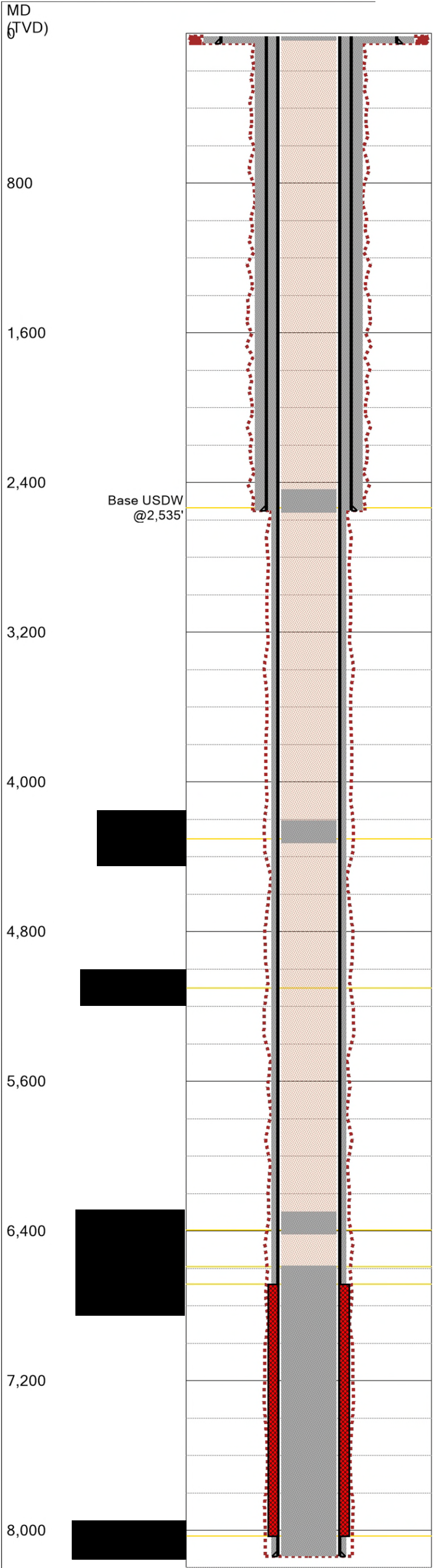
Fluid Sampling @ 6,686'-6,786'

Upper Injection Zone  
Intermediate Confining Zone

Lower Injection Zone

Temperature (DTS),  
Tubing Pressure (Gauge)  
@ 6,686'-8,030'

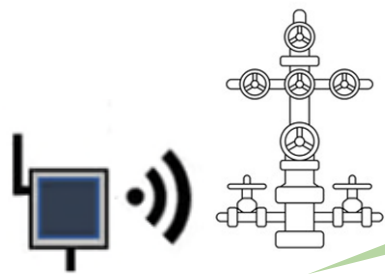
Figure 19. [Redacted], Proposed Monitoring Schematic



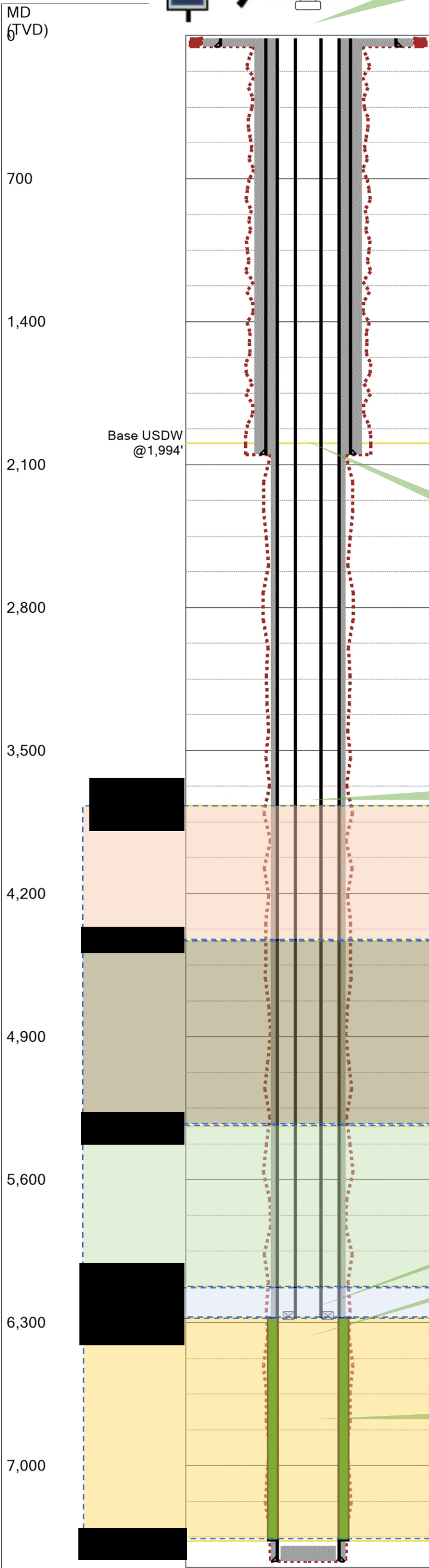
Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	8056	6420	4329	2560	39
Cement Volume (sacks)	275	23	23	23	10
Slurry Volume (bbl)	56.32	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6586	6295	4204	2435	14
Bottom of Plug (ft)	8056	6420	4329	2560	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plug, Retainer, or CT Plug				

Figure 20. [REDACTED], Proposed Abandonment Schematic





Surface Equipment:  
Comms to Central Control Facility (24-hr monitoring)



Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr, °F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	24	20	19.124	94	-	-	2.62	-	-	-
Surface	14' - 2050'	12.25	9.625	8.755	43.5	N-80	Long	2.62	6330	3,810	1,065,350
Long-String	14' - 4921'	8.5	7	6.276	26	L-80 L-80 CRA	Long	2.62	7240	5,410	603,930

Tubing	Depth Interval	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(psi)	(psi)	(lbf)
2-7/8"	6277'	2.875	2.441	6.5	L-80 CRA	Premium	10,570	11,170	144,960

Packer Type and Material	Packer Setting Depth	Length	Nominal Casing Weight	Outer Diameter	Inner diameter
	(feet)	(inches)	(lb/ft)	(inches)	(inches)
Permanent Sealbore Packer, CRA	6247	30.2	23 - 32	5.687	3.25

Tensile Rating	Burst Rating	Collapse Rating	Max Casing Inner Diameter	Min Casing Inner
(lbs)	(psi)	(psi)	(inches)	(inches)
200,000	7,500	7,500	6.366	6.049

Standard Annular Pressure Test: Casing/tubing annulus from surface to packer

Temperature (DTS) @ 1,994'

Temperature (DTS) @ 3,767'

Above Confining Zone Monitoring Interval

Upper Confining Zone

Temperature (DTS),  
Tubing Pressure (Gauge)  
@ 6,237'

Fluid Sampling @ 6,277'-6,377'

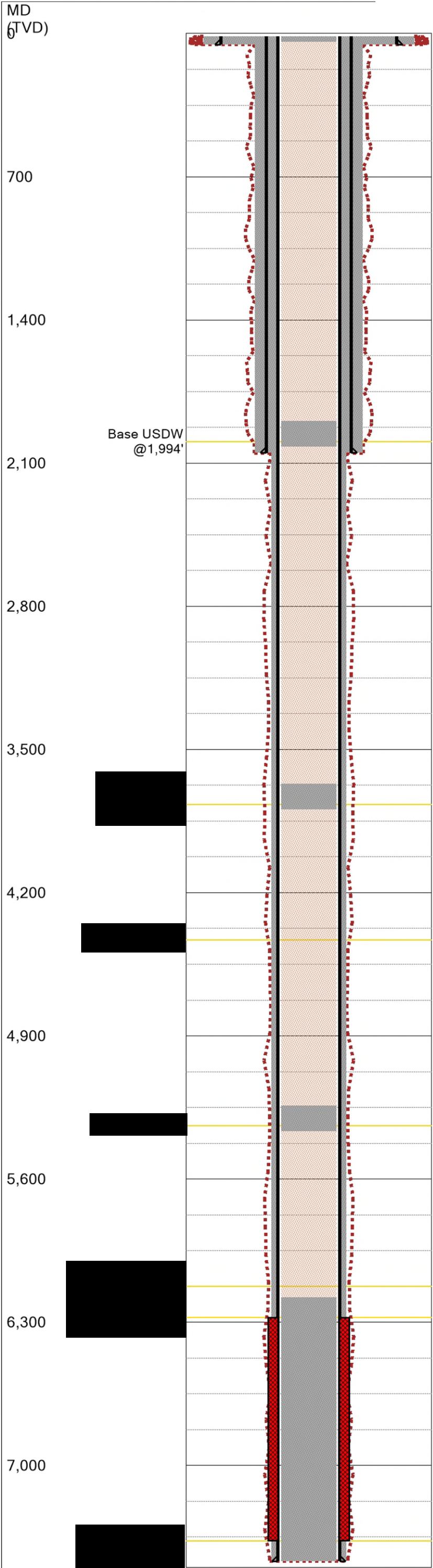
Upper Injection Zone

Intermediate Confining Zone

Lower Injection Zone

Temperature (DTS),  
Tubing Pressure (Gauge)  
@ 6,277'-7,367'

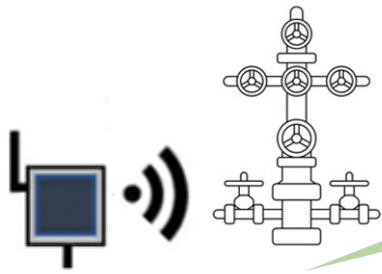
Figure 21. Proposed Monitoring Schematic



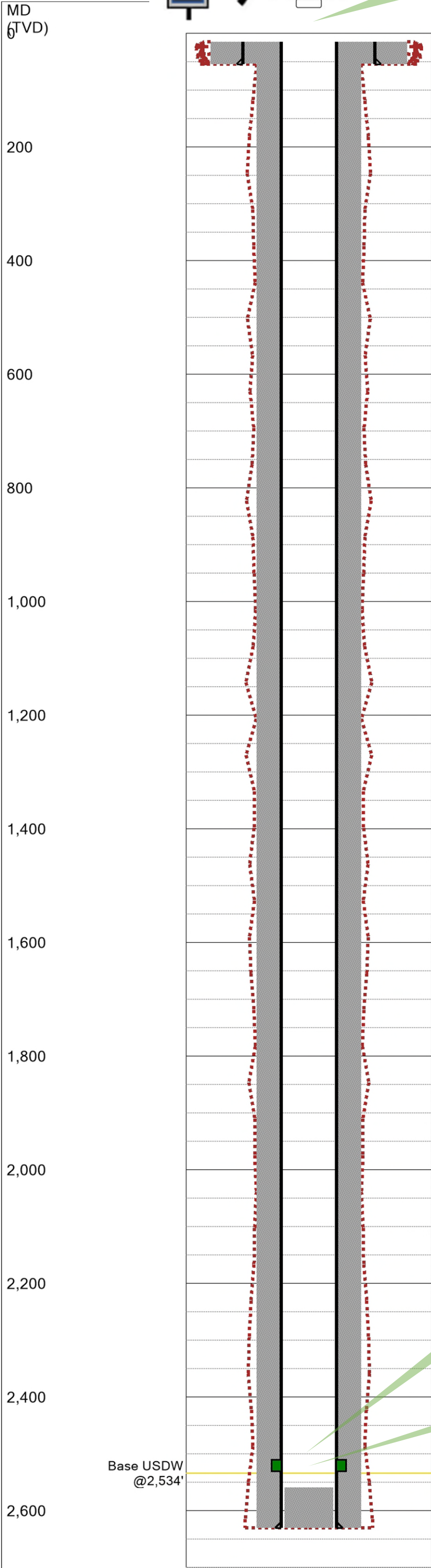
Well					
Plugs	Plug 1	Plug 2	Plug 3	Plug 4	Plug 5
Hole Size (in.)	6.276	6.276	6.276	6.276	6.276
Bottom of tubing (ft)	7394	5366	3793	2020	39
Cement Volume (sacks)	227	23	23	23	10
Slurry Volume (bbl)	46.49	4.71	4.71	4.71	2.05
Slurry Weight (lb/gal)	15.8	15.8	15.8	15.8	15.8
Top of plug (ft)	6178	5241	3668	1895	14
Bottom of Plug (ft)	7394	5366	3793	2020	39
Type of Cement	Class G	Class G	Class G	Class G	Class G
Method of placement	Balanced Plugs				

Figure 22. [REDACTED] Proposed Abandonment Schematic





Surface Equipment:  
Comms to Central Control Facility (24-hr monitoring)

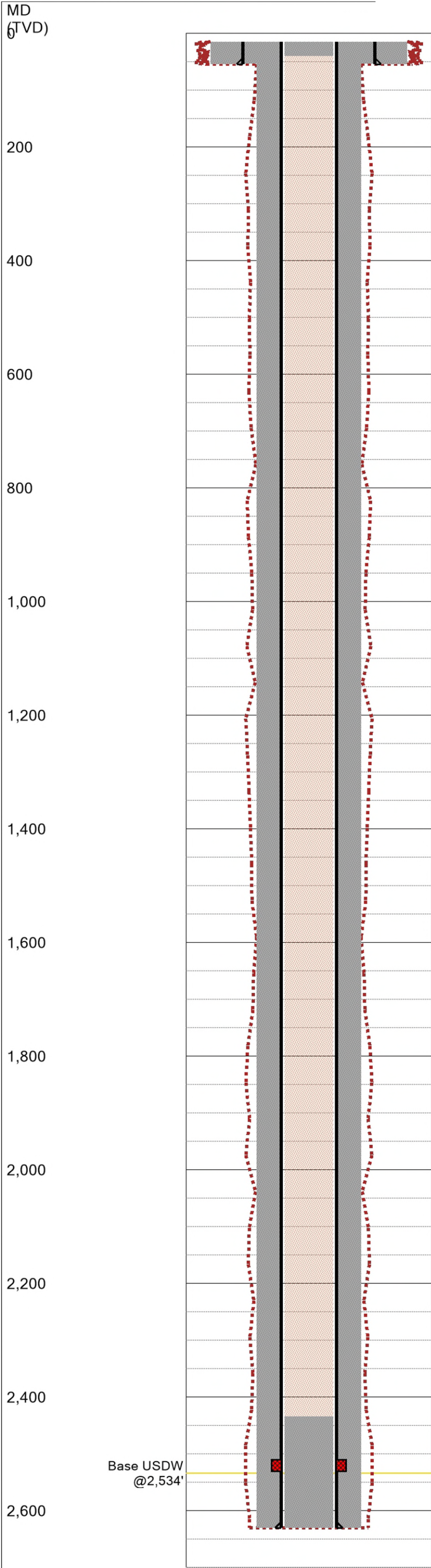


Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr,°F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	16"	10-3/4"	10.05"	40.5	H-40	-	2.62	2280	1,420	457,420
Casing	14' - 2630'	8.5"	4-1/2"	4.000"	11.6	J-55	Long	2.62	5350	4,960	183,590

Pressure, Temperature  
(gauge) @ 2,470'

Fluid Sampling @  
2,510'-2,530'

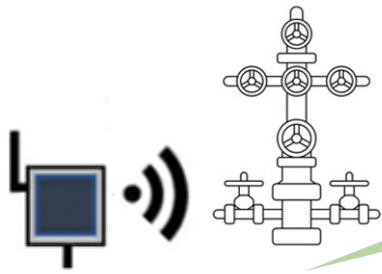
Figure 23. [REDACTED], Proposed Monitoring Schematic



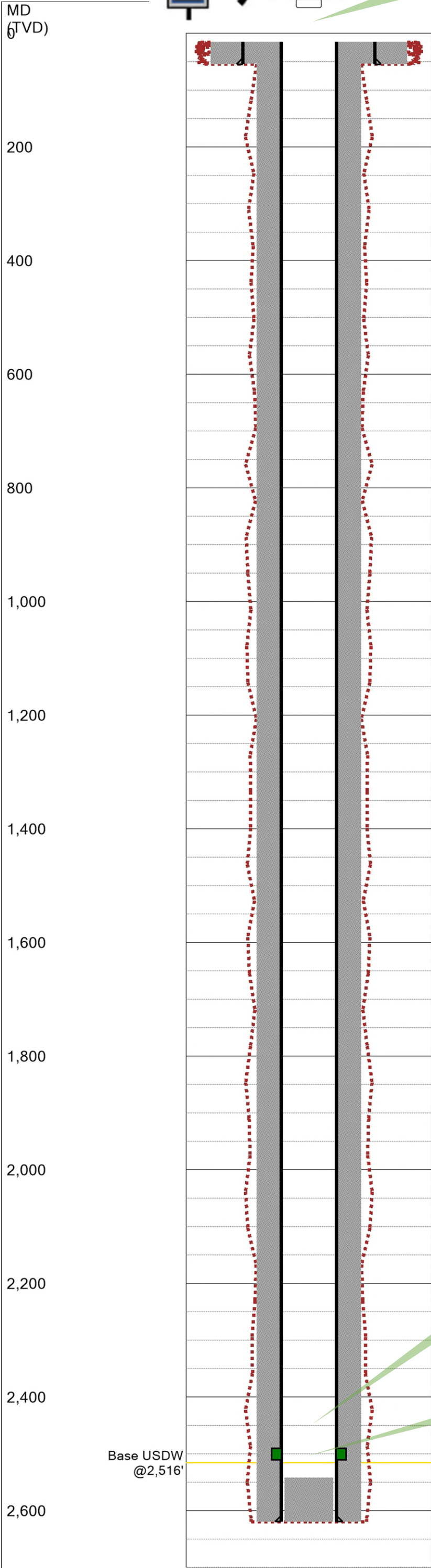
Well		
Plugs	Plug 1	Plug 2
Diameter of boring in which plug will be placed (in.)	4	4
Depth to bottom of tubing or drill pipe (ft)	2559	39
Sacks of Cement to be used (each plug)	9	8
Slurry Volume to be pumped (bbl)	1.84	1.64
Slurry Weight (lb/gal)	15.8	15.8
Calculated top of plug (ft)	2434	14
Bottom of Plug (ft)	2559	39
Type of Cement or other material	Portland	
Method of placement (e.g., balance method, retainer method, or two-plug method)	Balanced Plug, Retainer, or CT Plug	

Figure 24. [REDACTED] Proposed Abandonment Schematic





Surface Equipment:  
Comms to Central Control Facility (24-hr monitoring)

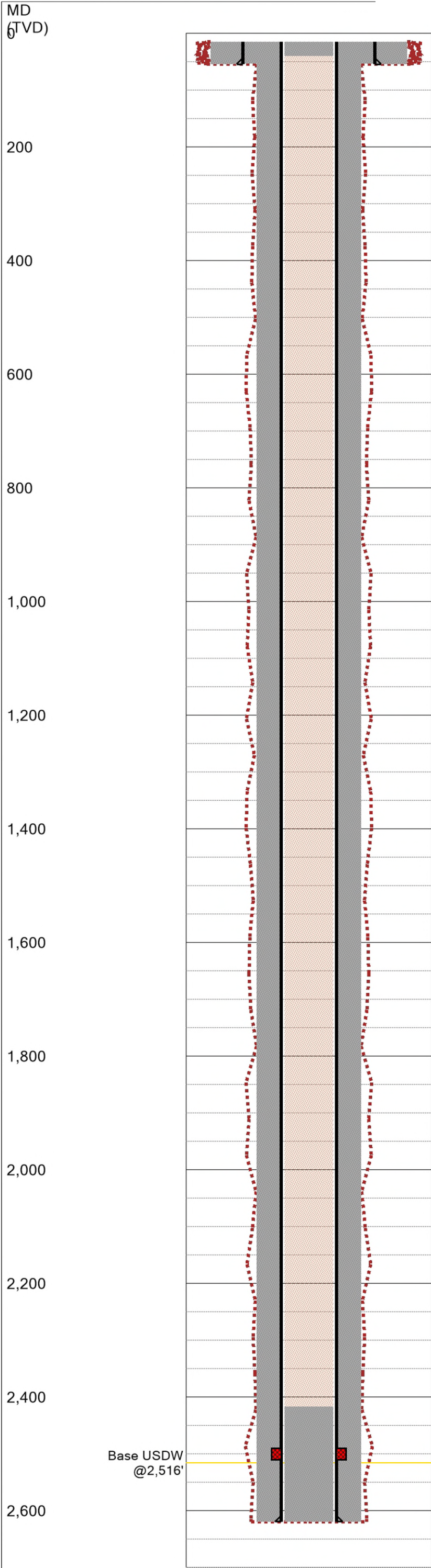


Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr, °F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	16"	10-3/4"	10.05"	40.5	H-40	-	2.62	2280	1,420	457,420
Casing	14' - 2619'	8.5"	4-1/2"	4.000"	11.6	J-55	Long	2.62	5350	4,960	183,590

Pressure, Temperature  
(gauge) @ 2,450'

Fluid Sampling @  
2,490'-2,510'

Figure 25. [REDACTED], Proposed Monitoring Schematic

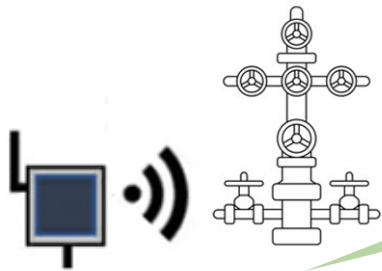


Cut casing 5' below GL. Stamp and weld cap.  
Backfill and reclaim surface location.

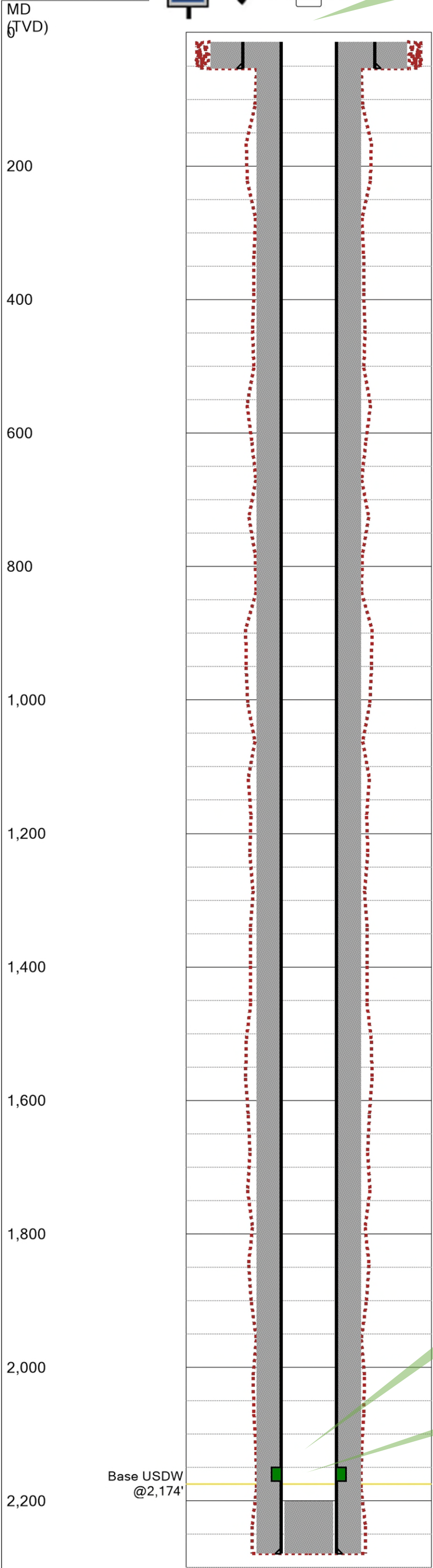
Well		
Plugs	Plug 1	Plug 2
Diameter of boring in which plug will be placed (in.)	4	4
Depth to bottom of tubing or drill pipe (ft)	2541	39
Sacks of Cement to be used (each plug)	9	8
Slurry Volume to be pumped (bbl)	1.84	1.64
Slurry Weight (lb/gal)	15.8	15.8
Calculated top of plug (ft)	2416	14
Bottom of Plug (ft)	2541	39
Type of Cement or other material	Portland	
Method of placement (e.g., balance method, retainer method, or two-plug method)	Balanced Plug, Retainer, or CT Plug	

Figure 26. [REDACTED], Proposed Abandonment Schematic



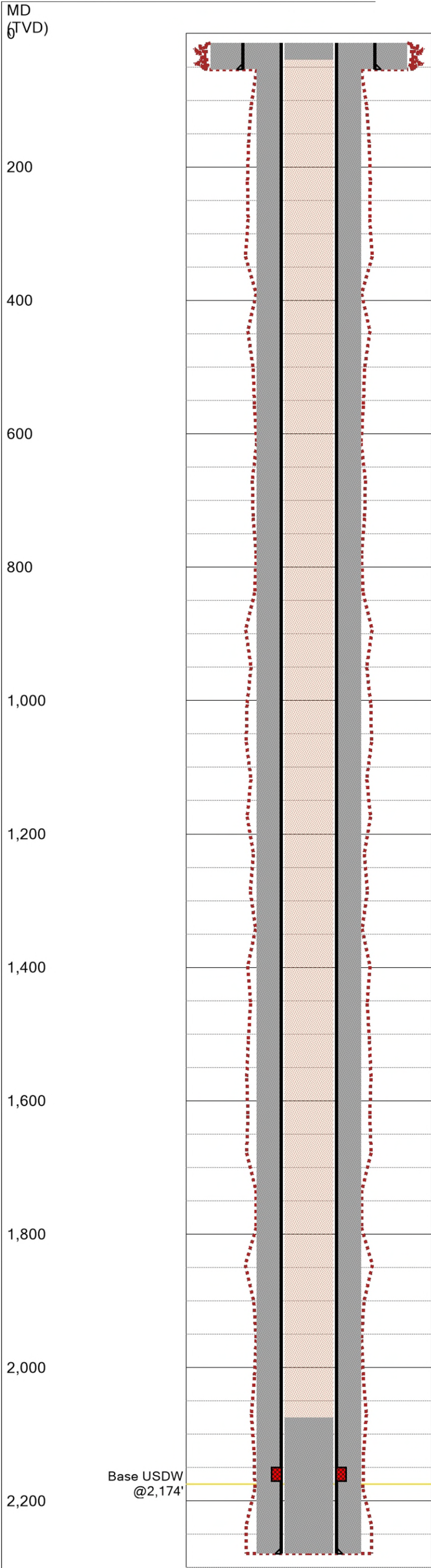


Surface Equipment:  
Comms to Central Control Facility (24-hr monitoring)



Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr, °F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	16"	10-3/4"	10.05"	40.5	H-40	-	2.62	2280	1,420	457,420
Casing	14' - 2279'	8.5"	4-1/2"	4.000"	11.6	J-55	Long	2.62	5350	4,960	183,590

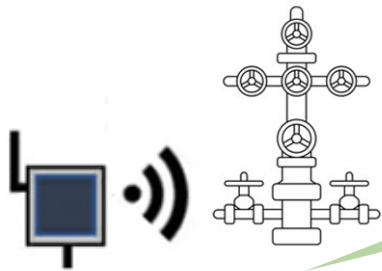
Figure 27. [REDACTED], Proposed Monitoring Schematic



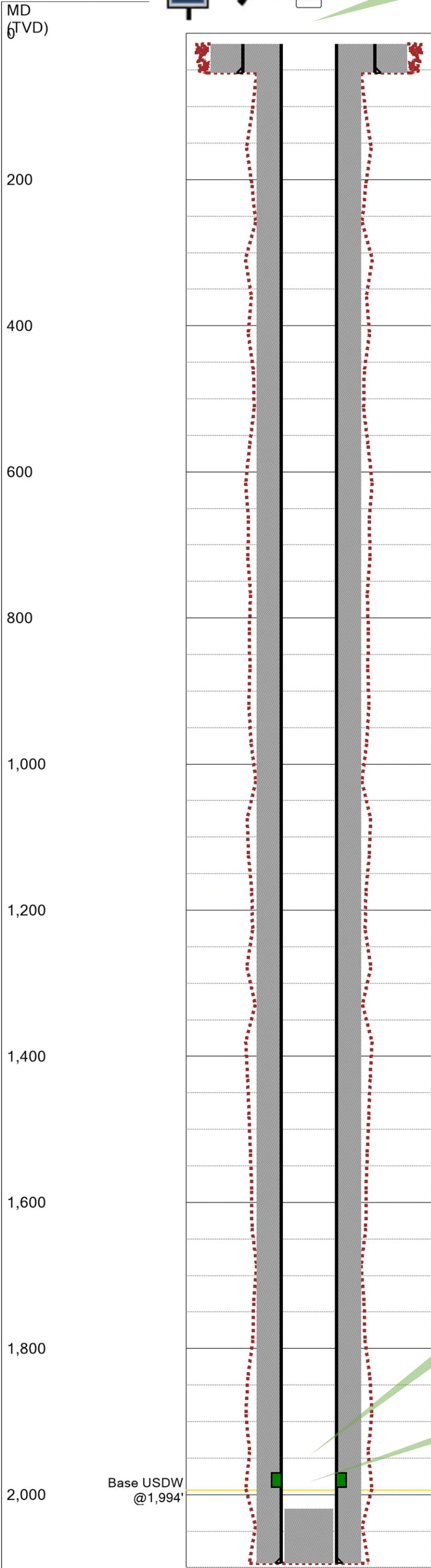
Well		
Plugs	Plug 1	Plug 2
Diameter of boring in which plug will be placed (in.)	4	4
Depth to bottom of tubing or drill pipe (ft)	2200	39
Sacks of Cement to be used (each plug)	9	8
Slurry Volume to be pumped (bbl)	1.84	1.64
Slurry Weight (lb/gal)	15.8	15.8
Calculated top of plug (ft)	2075	14
Bottom of Plug (ft)	2200	39
Type of Cement or other material	Portland	
Method of placement (e.g., balance method, retainer method, or two-plug method)	Balanced Plug, Retainer, or CT Plug	

Figure 28. [REDACTED], Proposed Abandonment Schematic





Surface Equipment:  
Comms to Central Control Facility (24-hr monitoring)

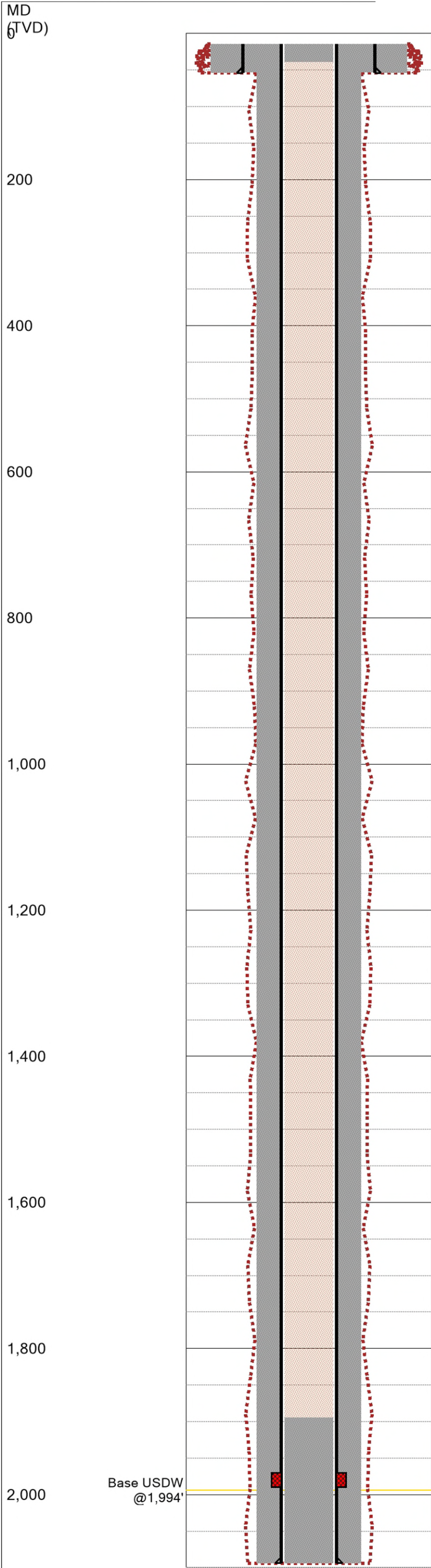


Casing	Depth Interval	Open Hole Diameter	Outer Diameter	Inner Diameter	Weight	Grade	Design Coupling	Thermal Conductivity @ 77 °F	Burst Strength	Collapse Strength	Tensile Strength
	(feet)	(Inches)	(inches)	(inches)	(lb/ft)	(API)	(short or long threaded)	(BTU/ft hr,°F)	(psi)	(psi)	(lbf)
Conductor	14' - 54'	16"	10-3/4"	10.05"	40.5	H-40	-	2.62	2280	1,420	457,420
Casing	14' - 2094'	8.5"	4-1/2"	4.000"	11.6	J-55	Long	2.62	5350	4,960	183,590

Pressure, Temperature  
(gauge) @ 1,930'

Fluid Sampling @  
1,970'-1,990'

Figure 29. [REDACTED], Proposed Monitoring Schematic



Cut casing 5' below GL. Stamp and weld cap.  
Backfill and reclaim surface location.

Well		
Plugs	Plug 1	Plug 2
Diameter of boring in which plug will be placed (in.)	4	4
Depth to bottom of tubing or drill pipe (ft)	2019	39
Sacks of Cement to be used (each plug)	9	8
Slurry Volume to be pumped (bbl)	1.84	1.64
Slurry Weight (lb/gal)	15.8	15.8
Calculated top of plug (ft)	1894	14
Bottom of Plug (ft)	2019	39
Type of Cement or other material	Portland	
Method of placement (e.g., balance method, retainer method, or two-plug method)	Balanced Plug, Retainer, or CT Plug	

Figure 30. [REDACTED] Proposed Abandonment Schematic