

Appendix C

Photograph Log



No. 1 – *Confirming rig will meet layout requirements*



No. 2 – *Daylighting activities and sound panel placement.*



No. 3 – *Daylighting activities and sound panel placement.*



No. 4 – *Daylighted boring/plastic placement, and sound panels prior to parking drill rig.*



No. 5 – *Layout of drill site with roll-off, totes, and support truck with drill casing.*



No. 6 – *Core storage area.*



No. 7 – *Photograph of dumping hopper (cuttings from rig to roll-off).*



No. 8 – *Core storage area after approximately one week of drilling activities.*



No. 9 – Photograph of core retrieval area and winter drilling conditions.



No. 10 – AOP Security vehicle.



No. 11 – *Push-ahead ground water sampler.*



No. 12 – *Push-ahead ground water sampler.*



No. 13 – *Push-ahead ground water sampler.*



No. 14 – *Push-ahead ground water sampler.*



No. 15 – Roll-off delivery.



No. 16 – Rig Repair at mast using high-lift.



No. 17 – Geophysical Logging Truck.



No. 18 – Geophysical Logging Truck.



No. 19 – *Preparing Well Casing for Monitoring Well Installation.*



No. 20 – *Monitoring Well casing installation.*



No. 21 – Well installation materials/removal of final section of drill casing.



No. 22 – Monitoring Well installation – final section of monitoring well casing.



No. 23 – *Monitoring well installation with locking cap.*



No. 24 – *Monitoring well condition at time of City of Albuquerque inspection prior to concrete placement.*



No. 25 – Concrete Pouring – monitoring wellhead post inspection approval.



No. 26 – Final monitoring well installation – Data Gap Monitoring Well WUABFFMW01.



No. 27 – *Photograph of WUABFFMW01 during development. The well was being bailed.*



No. 28 – *Photograph of the 275-gallon totes that the development water was stored in on-site.*



No. 29 – Photograph of the PDBs being pulled up for sampling.



No. 30 – Photograph of WUABFFMW01 being surveyed by High Mesa Consulting Group.



No. 31 – Photograph of the low flow sampling set up using a trailer mounted Bennett Pump.



No. 32 – Photograph of the low flow sampling trailer and flow rate being measured.

Appendix D

Soil Boring Log/Monitoring Well Construction Diagram



MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

March 7, 2022

Diane Agnew
Albuquerque Bernalillo Co. Water Utility Authority
PO Box 568
Albuquerque, New Mexico 87103

RE: Approval of the Final Well Design for Data Gap Monitoring Well Installation (SAP 21-F2298-STB)

Dear Diane Agnew:

The Final Well Design for the referenced project that was created by Intera was received on March 4th, 2022. The document has been reviewed and the New Mexico Environment Department Construction Programs Bureau (NMED-CPB) hereby recommends approval and the project may move forward.

Please note that review of the Final Well Design for is only for bid ability, constructability, and completeness; the feasibility or cost effectiveness of the project have not been evaluated. Review of these plans does not relieve the owner or engineer of legal responsibilities for overall integrity of the project, adequacy of the design or compliance with all applicable regulations. The NMED is not responsible for increased costs resulting from defects in the plans, design drawings, specifications, or other contract documents. This letter is valid for one year from the date of issue. Continued compliance with State and Federal regulations will require that the facility be properly constructed, operated and maintained.

Should you have any question or comments, contact Eric Gartner at 505-670-3643 or e-mail at eric.gartner@state.nm.us

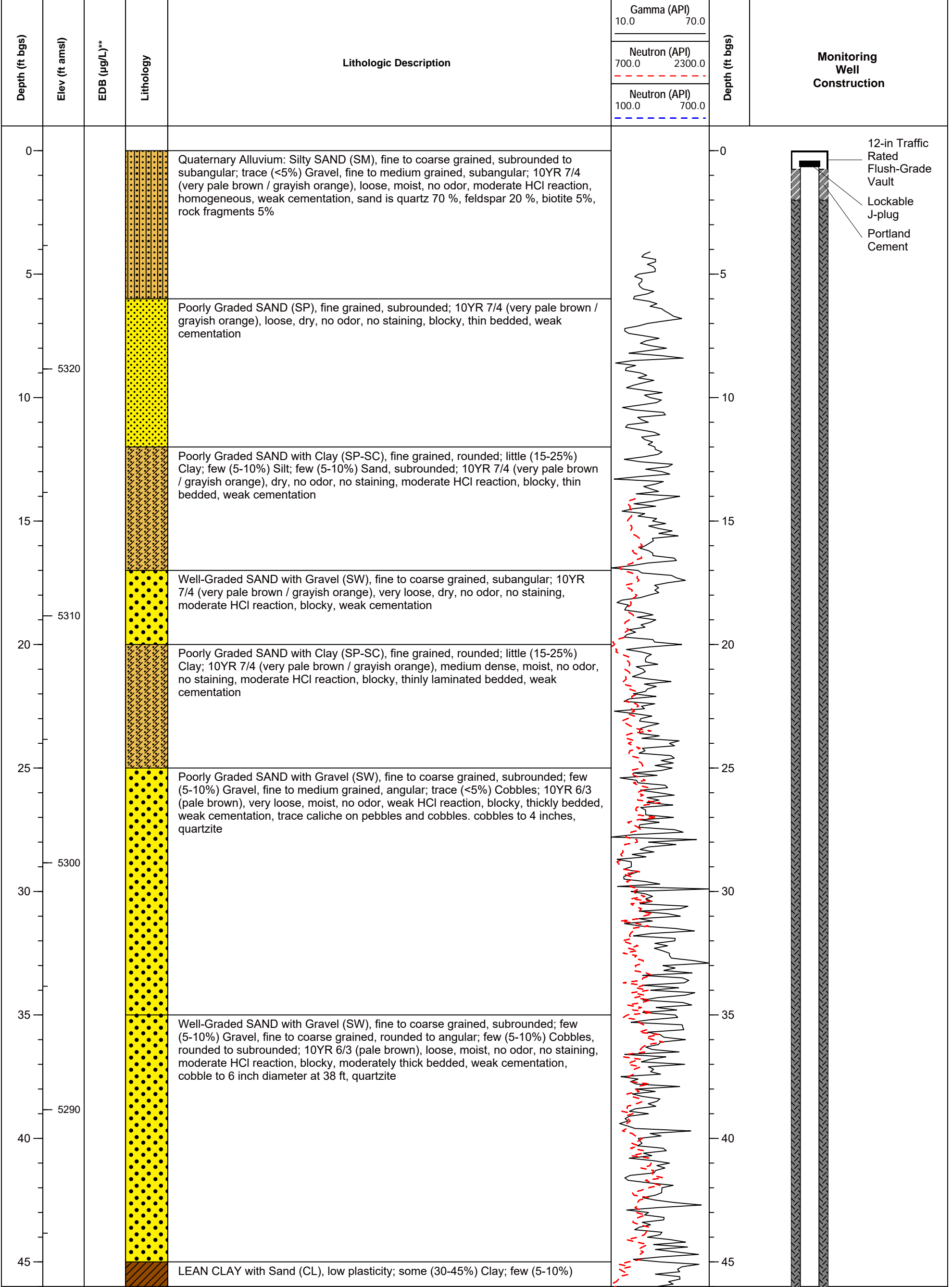
Sincerely,

Eric Gartner
Project Manager

cc: Marta Ortiz (ABCWUA)

SCIENCE | INNOVATION | COLLABORATION | COMPLIANCE

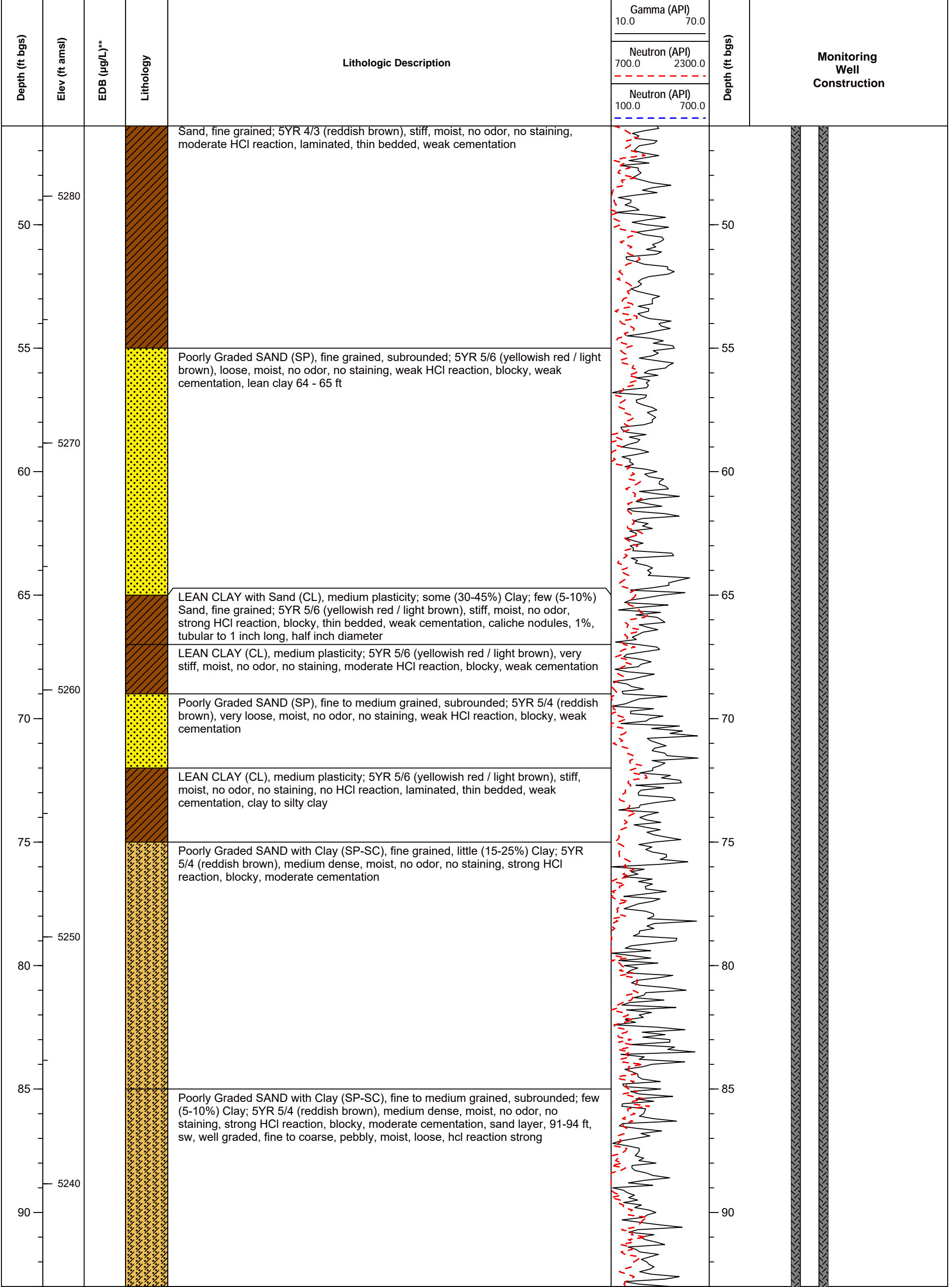
Date Started: 1/25/2022	Driller: K. Rogers	DTW First Encountered (ft bgs): 458 (2/10/2022)
Date Completed: 4/06/2022	Logged By: R. Sengebusch	DTW Static (ft btoc): 452.89 (5/25/2022)
Drilling Company: Cascade Drilling	Boring Depth (ft bgs): 610	Collar Elevation (ft amsl): 5328.542
Drilling Method: Sonic	Boring Diameter (in): 8.0	Northing*: 1479210.657
Sampling Method: Core Barrel	Surface Elev. (ft amsl)*: 5328.839	Easting*: 1544391.936



Lab Samples
■ Aqueous

1) ft = feet, bgs = below ground surface, in = inches, amsl = above mean sea level, DTW = depth to water, btoc = below top of casing, EPA = Environmental Protection Agency, EDB = ethylene dibromide, µg = micrograms, L = liter, API = American Petroleum Institute gamma ray unit
 *Coordinates are in NAD83, State Plane NM Central, ft
 **Groundwater push ahead samples were collected and analyzed for EDB via EPA Method 8011

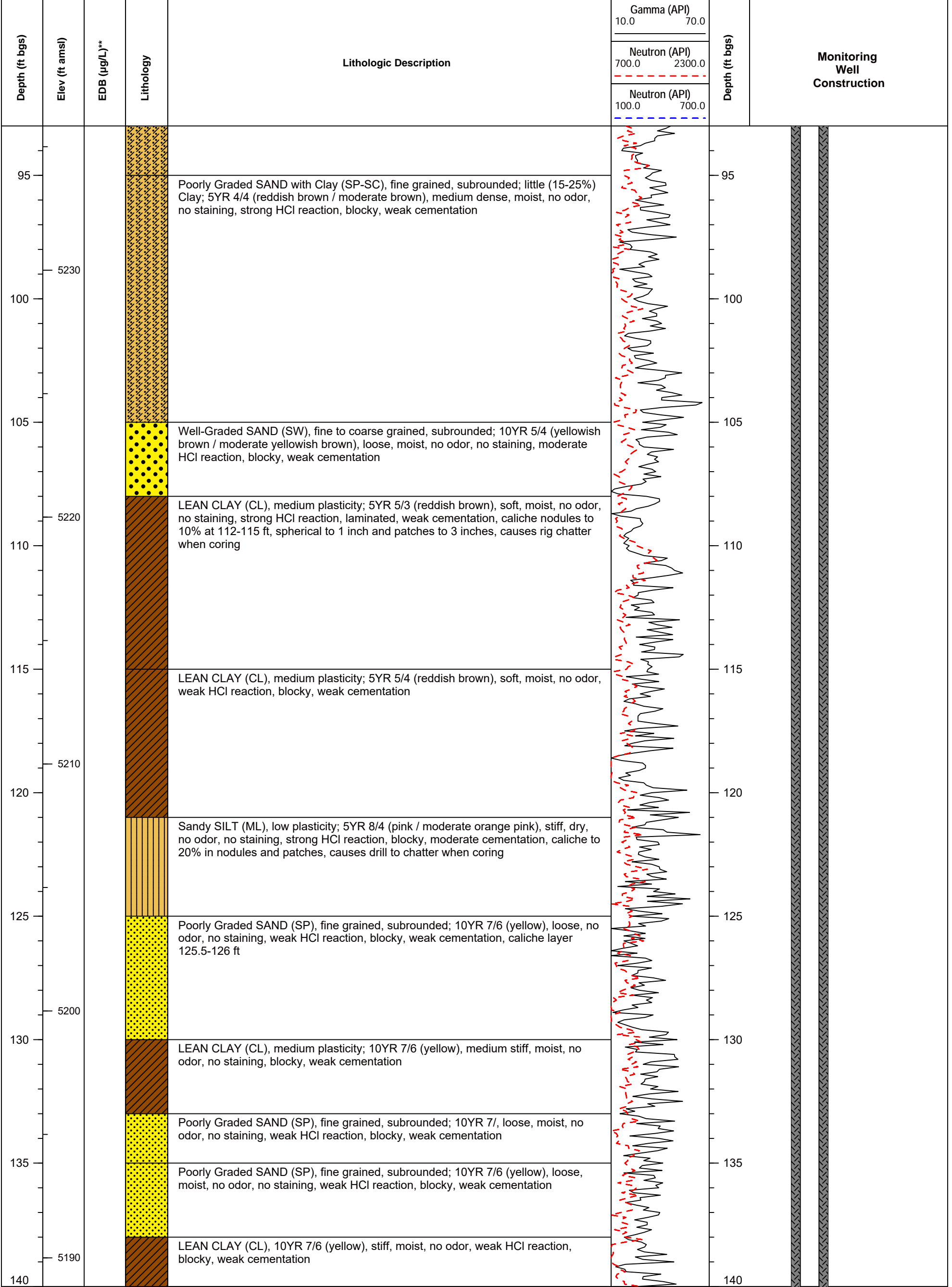
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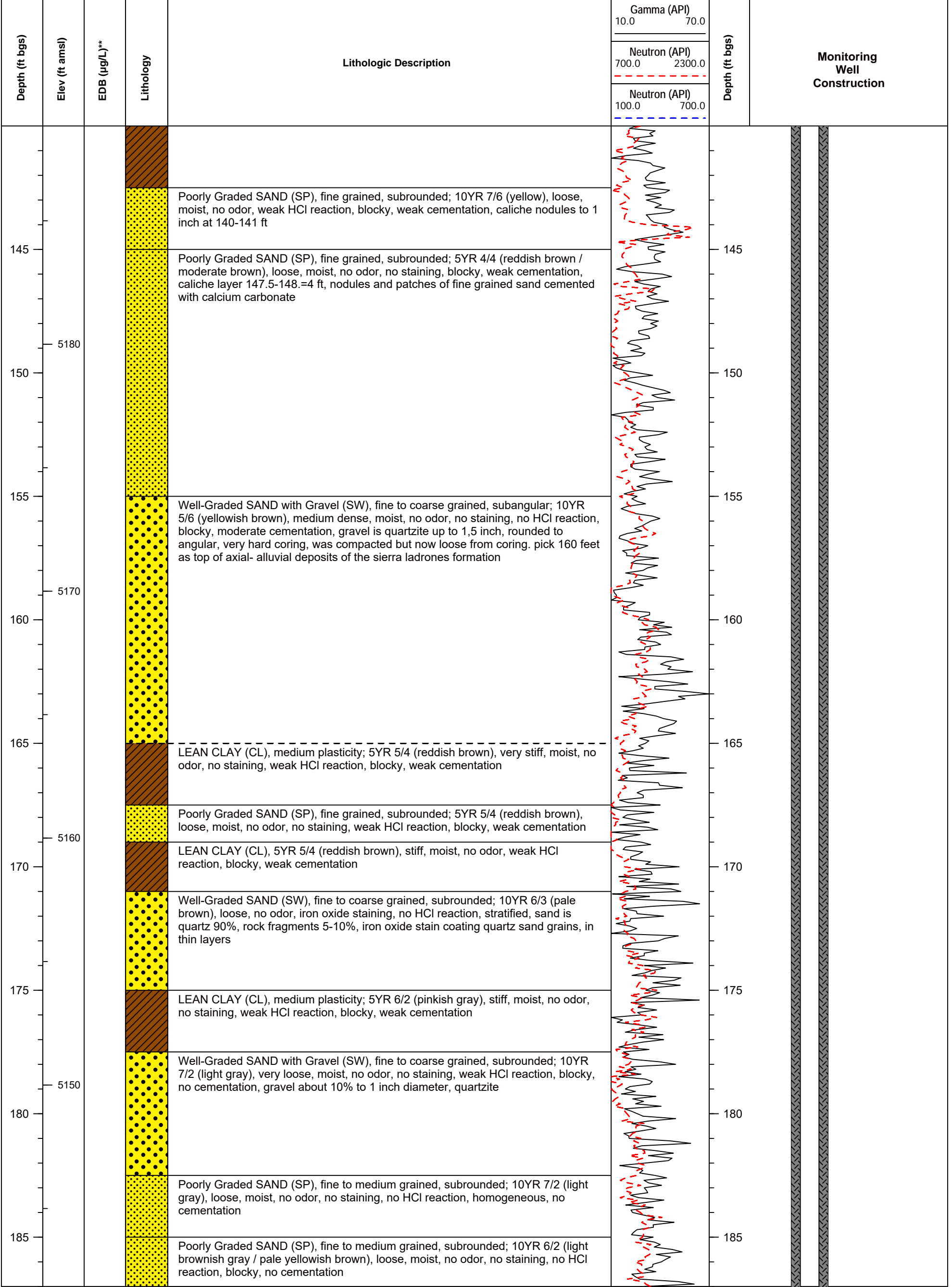
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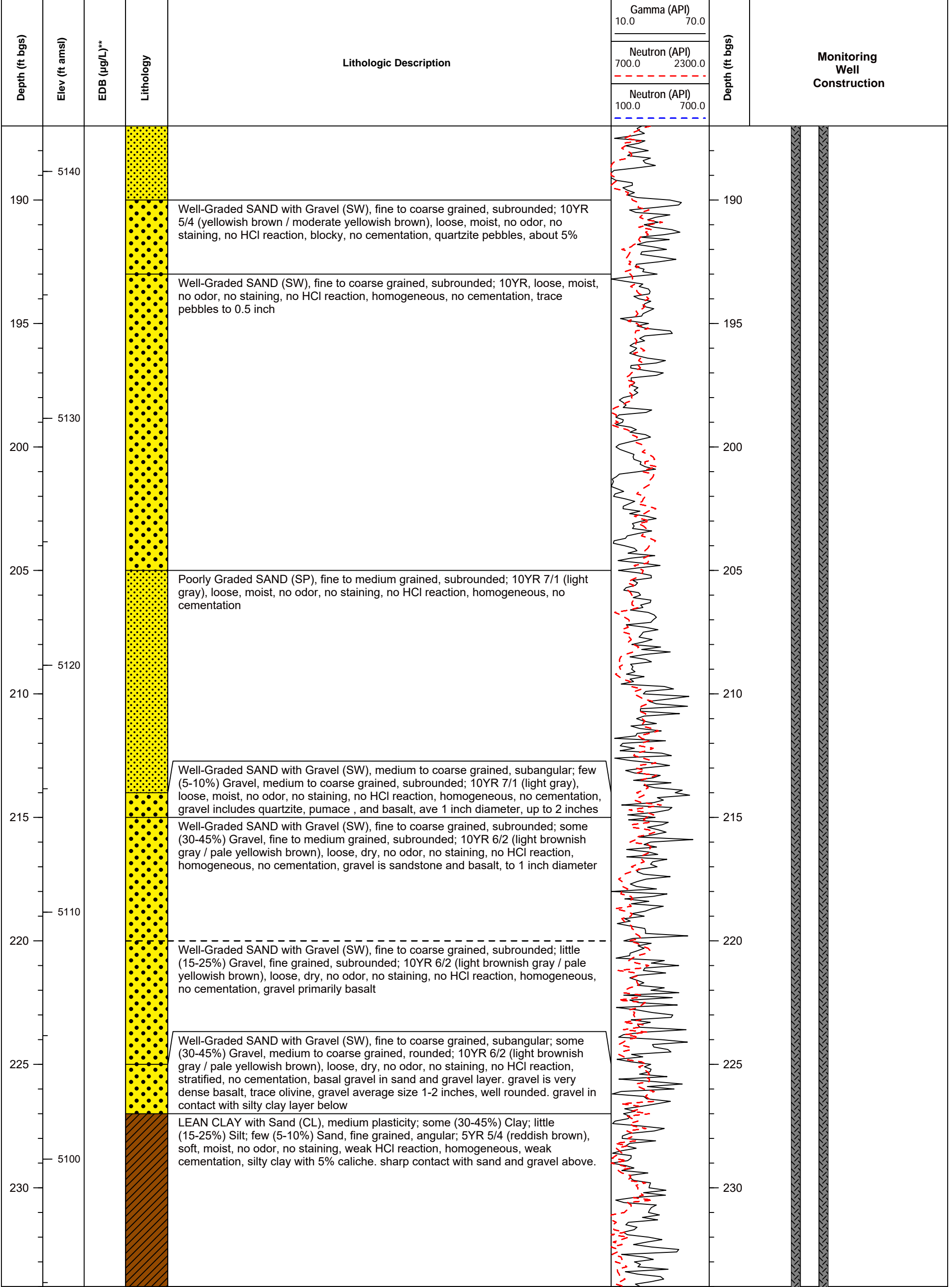
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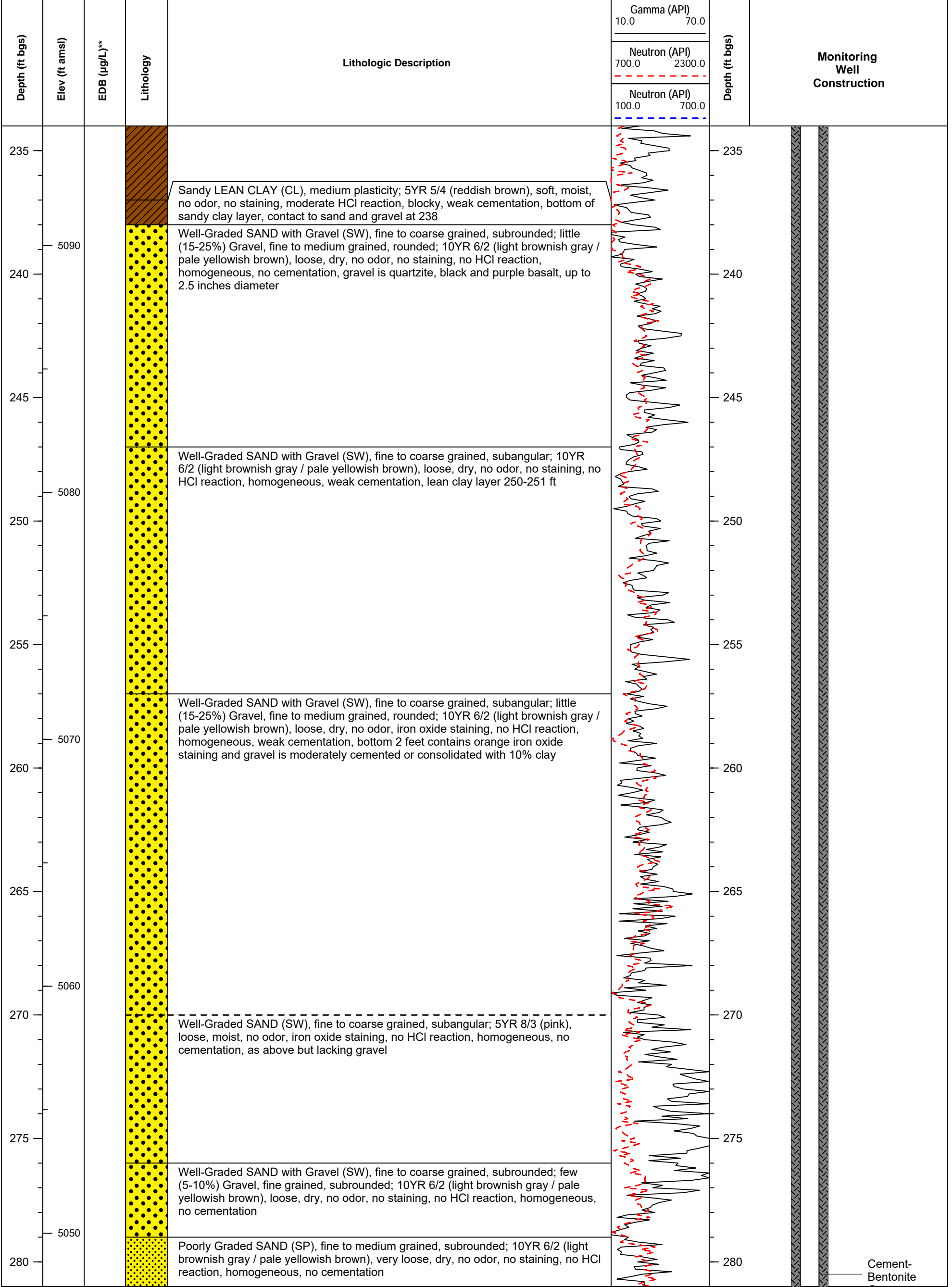
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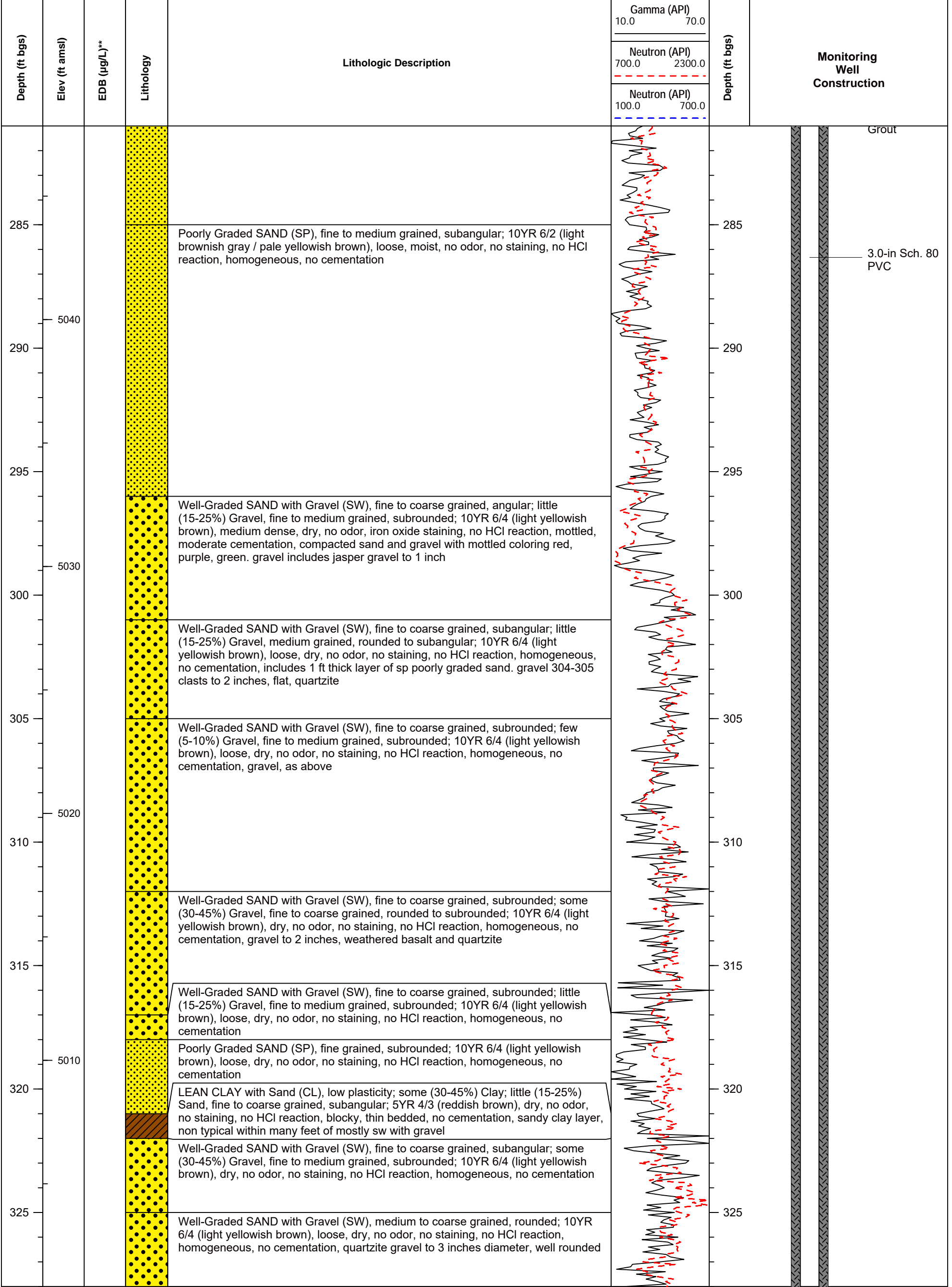
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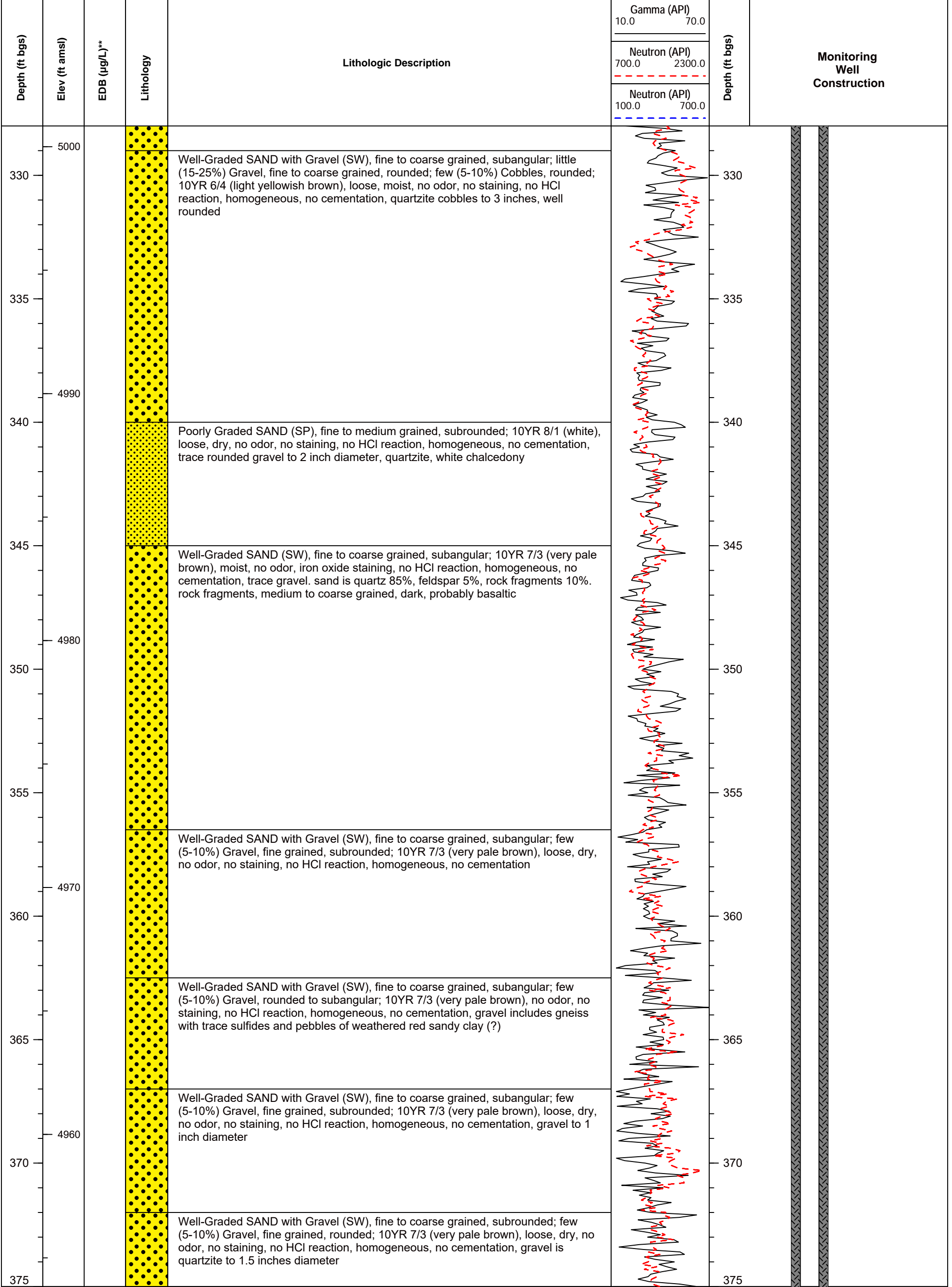
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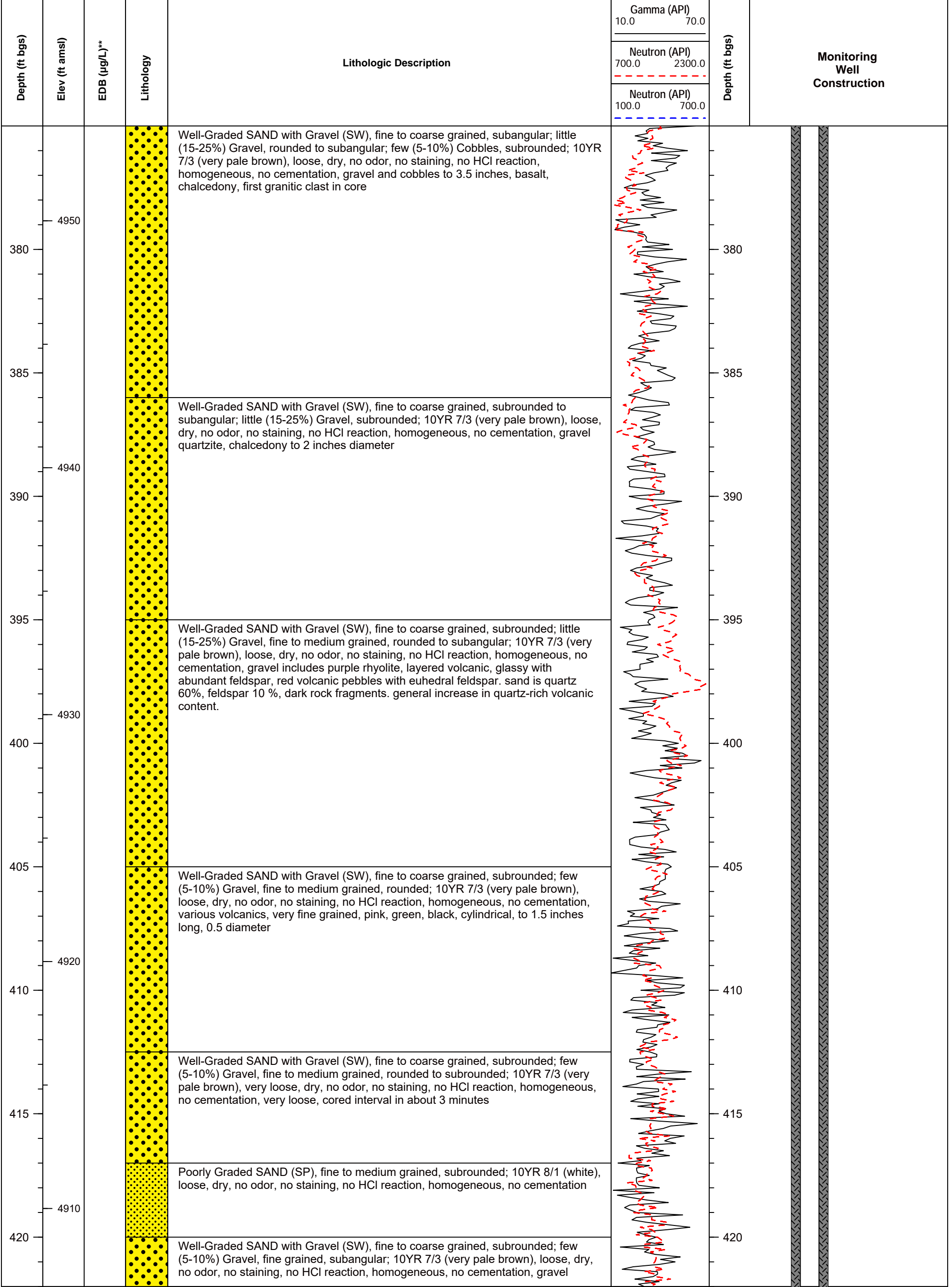
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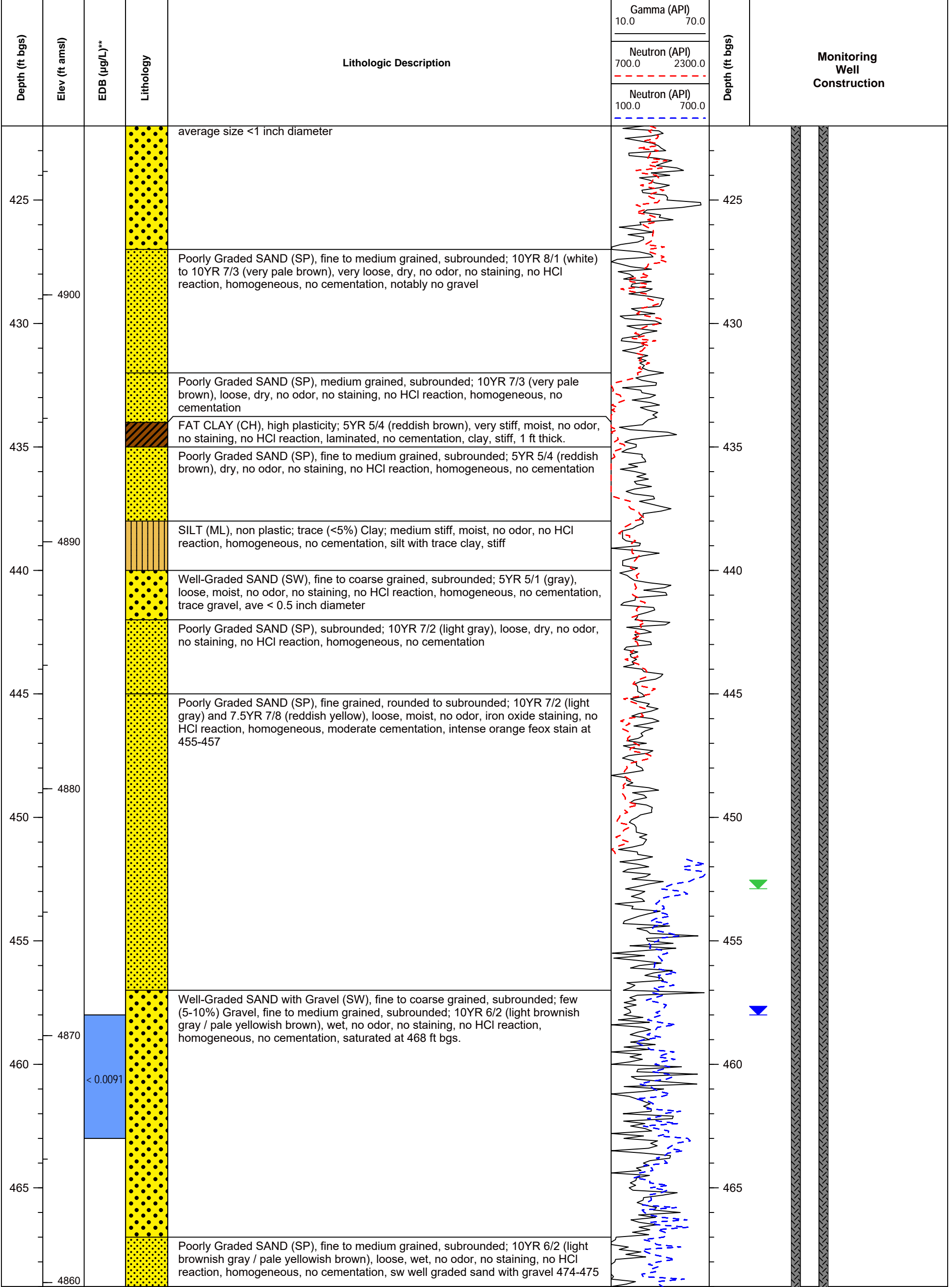
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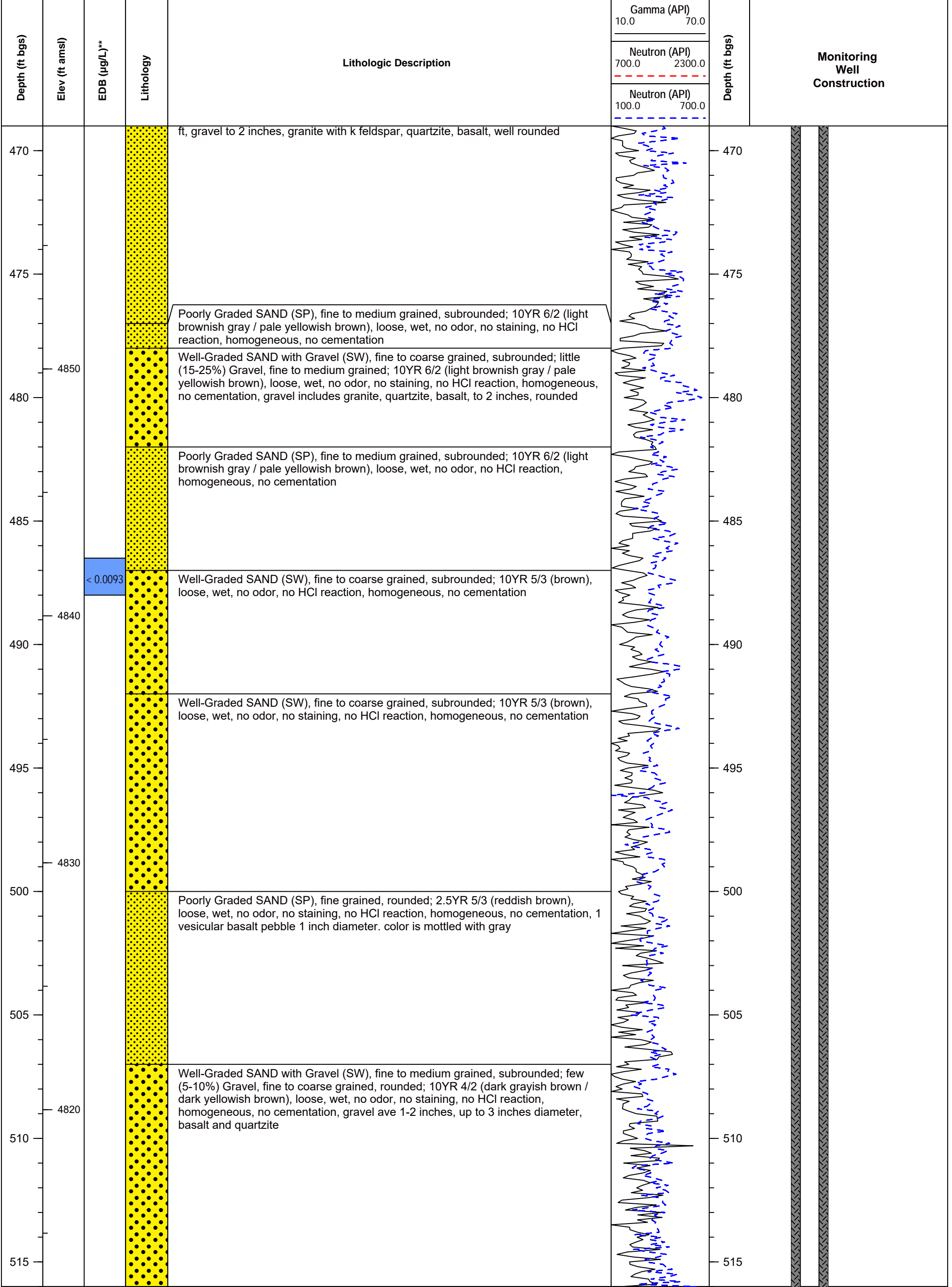
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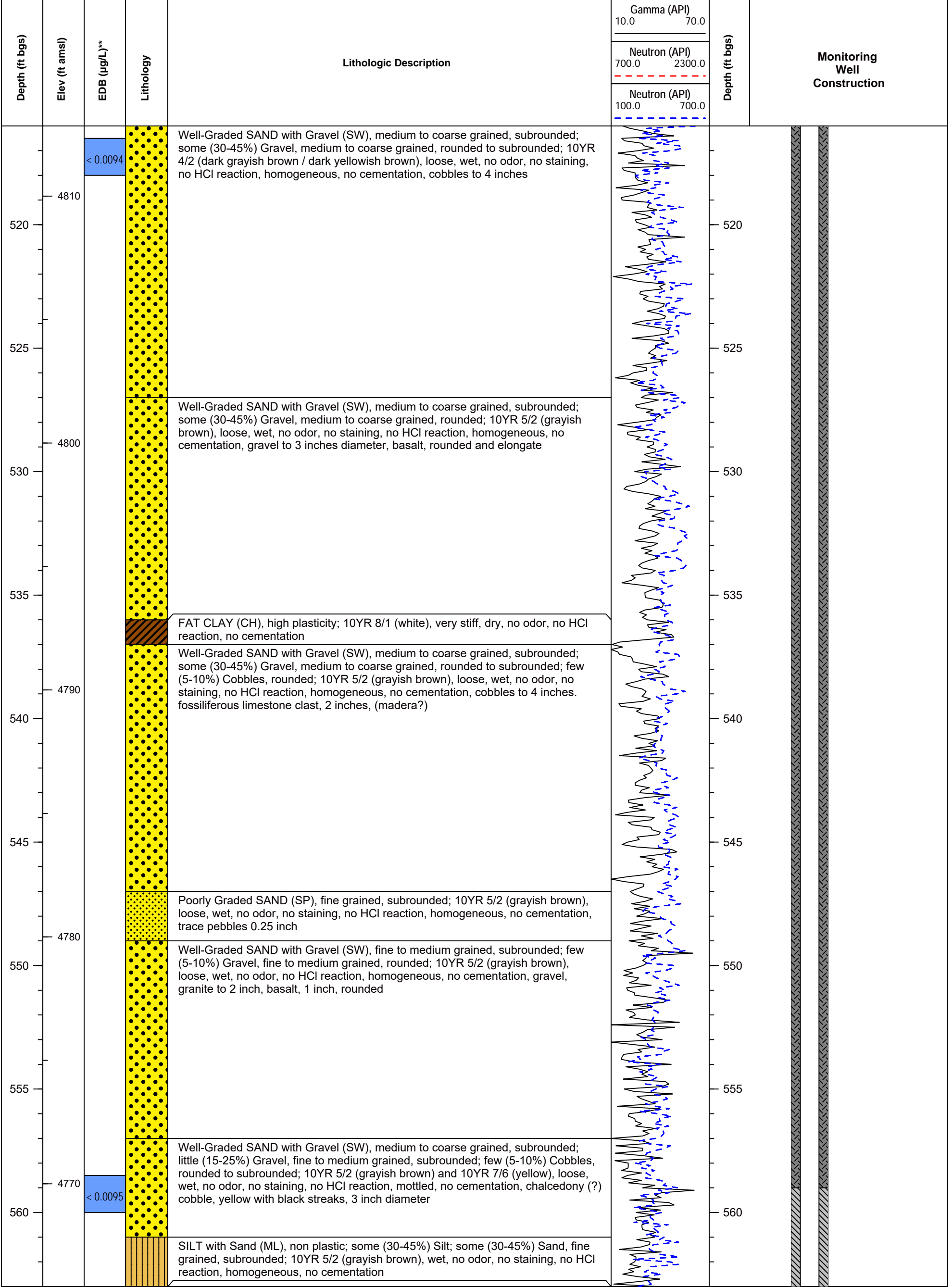
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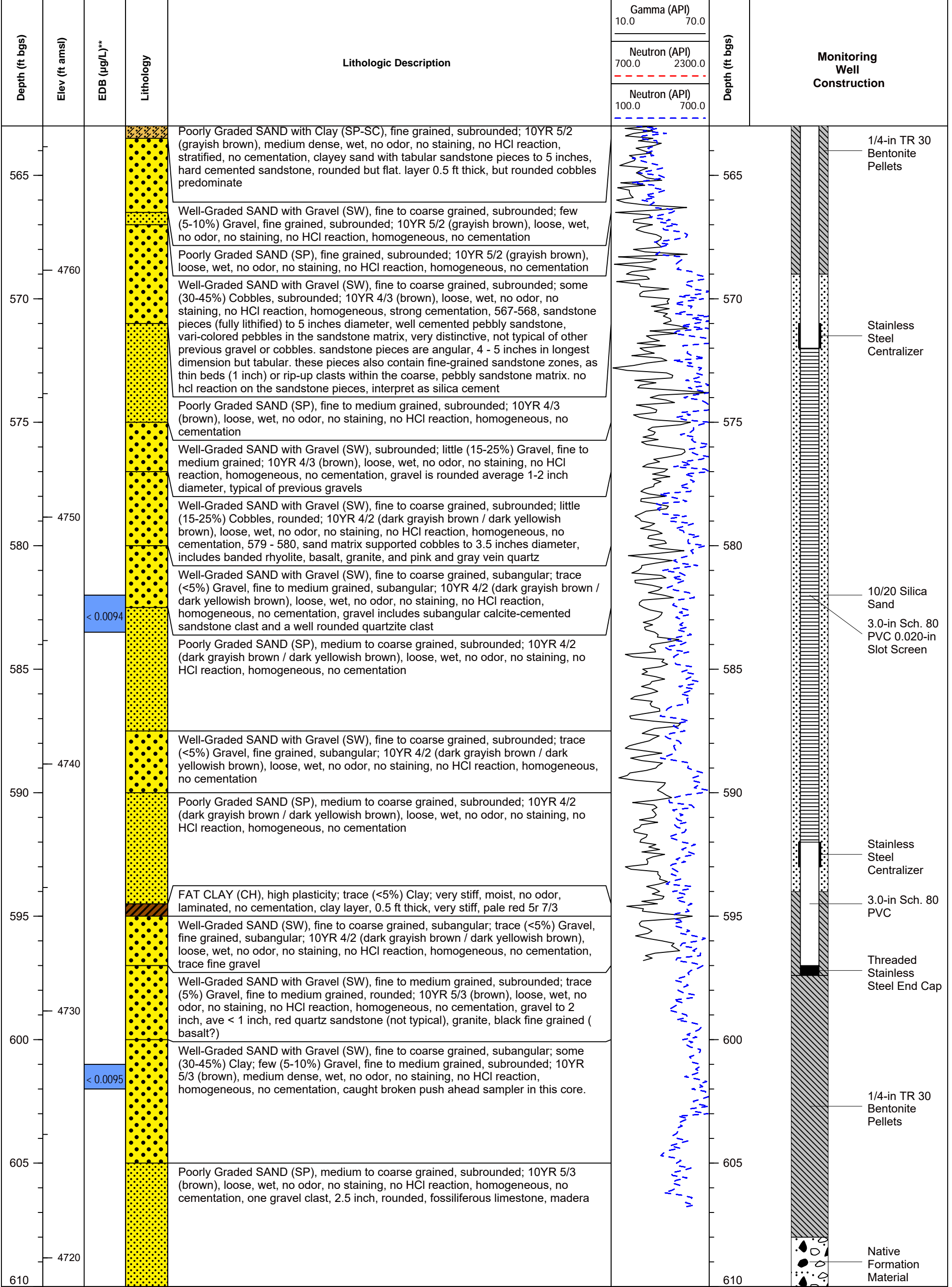
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Appendix E

Well Development Forms

PROJECT NAME: ABWUA COOP. KAFB WELL NO.: Data G. hole 11
PROJECT NO.: _____ DATE: 4/7/22 FORM COMPLETED BY: B. Mayhew

WELL CONSTRUCTION

TOTAL DEPTH BELOW MEASURING POINT (BMP) (FT): 596.70 BOREHOLE DIAMETER (IN): 34.317"
TOTAL DEPTH BELOW LAND SURFACE (FT BLS): _____ WELL DIAMETER INSIDE (IN): 2.81"
WELL PROTECTOR: YES NO PADLOCK NO.: _____ WELL DIAMETER OUTSIDE (IN): _____
SAND PACK INTERVAL (BLS) (FT): _____ SCREEN INTERVAL (BLS) (FT): _____

Screen 572-592 **WATER VOLUME CALCULATION**
simp 592-597

DATE/TIME OF MEASUREMENT: 4/7/22 747
MEASURING POINT: TOC ELEV.: _____
WATER LEVEL INSTRUMENT USED: Silent Okuma
INITIAL WATER LEVEL (BMP) (FT): 454.91
LINEAR FEET OF WATER: _____
LINEAR FEET SATURATED GRAVEL PACK: _____

ITEM	WATER VOLUME	
	FT ³	GAL
Well Casing		250
Sand Pack		
Drilling Fluids		4000
TOTAL		4250

NOTE: Quantities are to be calculated prior to development.

DEVELOPMENT CRITERIA

METHOD OF DEVELOPMENT: Bailer 2" ID x 40" @ ~6.5 gal per
WATER VOLUME TO BE REMOVED (GAL): _____ WATER VOLUME ACTUALLY REMOVED (GAL): _____
TIME DEVELOPMENT STARTED: _____ TIME DEVELOPMENT COMPLETED: _____

NOTE: Development is to be performed in accordance with Standard Operating Procedure No. 8.

WATER QUALITY INSTRUMENTS

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
<u>XSI PRO 1030</u>		<u>820</u>	<u>BM</u>	
<u>HACH</u>	<u>2000Q</u>	<u>820</u>	<u>BM</u>	

WATER QUALITY READINGS DURING DEVELOPMENT

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
<u>1015</u>	<u>6.5</u>	<u>15.5</u>	<u>828</u>	<u>7000</u>	<u>7.88</u>		<u>Stray odor</u>
<u>1150</u>	<u>55</u>	<u>17.0</u>	<u>645</u>	<u>7000</u>	<u>8.33</u>		<u>"</u>
<u>1215</u>	<u>100</u>	<u>17.9</u>	<u>492</u>	<u>7000</u>	<u>8.40</u>		
<u>1442</u>	<u>130</u>	<u>20.9</u>	<u>586</u>	<u>7000</u>	<u>7.66</u>		<u>Stray odor (gas)?</u>
<u>1507</u>	<u>160</u>	<u>20.7</u>	<u>582</u>	<u>7000</u>	<u>8.00</u>		<u>"</u>
<u>1531</u>	<u>180</u>	<u>19.8</u>	<u>384</u>	<u>7000</u>	<u>8.38</u>		<u>"</u>
<u>1605</u>	<u>245</u>	<u>19.7</u>	<u>348</u>	<u>7000</u>	<u>8.72</u>		<u>" Sweet oilish smell</u>
	<u>END DAY</u>		<u>1</u>	<u>TOTAL PURGED</u>			
			<u>285 gal</u>				

*If measured.
Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

PROJECT NAME: AQUILA 1009 KAFB WELL NO.: D-6 Well
PROJECT NO.: _____ DATE: 4/8/22 FORM COMPLETED BY: B. M. [Signature]

WELL CONSTRUCTION

TOTAL DEPTH BELOW MEASURING POINT (BMP) (FT): 597.2 BOREHOLE DIAMETER (IN): 8"
TOTAL DEPTH BELOW LAND SURFACE (FT BLS): _____ WELL DIAMETER INSIDE (IN): 2.8
WELL PROTECTOR: YES NO PADLOCK NO.: _____ WELL DIAMETER OUTSIDE (IN): _____
SAND PACK INTERVAL (BLS) (FT): _____ SCREEN INTERVAL (BLS) (FT): 572-572

WATER VOLUME CALCULATION

DATE/TIME OF MEASUREMENT: 4/8/22 7:45
MEASURING POINT: TDC ELEV.: _____
WATER LEVEL INSTRUMENT USED: _____
INITIAL WATER LEVEL (BMP) (FT): 453.6'
LINEAR FEET OF WATER: _____
LINEAR FEET SATURATED GRAVEL PACK: _____

ITEM	WATER VOLUME	
	FT ³	GAL
Well Casing		
Sand Pack		
Drilling Fluids		
TOTAL		<u>4250</u>

NOTE: Quantities are to be calculated prior to development.

-285 previous day
3965

DEVELOPMENT CRITERIA

METHOD OF DEVELOPMENT: Baker 40' x 2" ID @ 65 gal per
WATER VOLUME TO BE REMOVED (GAL): 3965 WATER VOLUME ACTUALLY REMOVED (GAL): _____
TIME DEVELOPMENT STARTED: _____ TIME DEVELOPMENT COMPLETED: _____

NOTE: Development is to be performed in accordance with Standard Operating Procedure No. 8.

WATER QUALITY INSTRUMENTS

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
<u>YSI</u>	<u>PEW1030</u>	<u>700</u>	<u>BM</u>	<u>2 PT PH</u>
<u>HACH</u>	<u>2100Q</u>	<u>730</u>	<u>BM</u>	

WATER QUALITY READINGS DURING DEVELOPMENT

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
<u>9:00</u>	<u>300</u>	<u>17.6</u>	<u>363.6</u>	<u>>1000</u>	<u>7.56</u>	<u>BM</u>	<u>str odor</u>
<u>10:00</u>	<u>375</u>	<u>18.1</u>	<u>339</u>	<u>>1000</u>	<u>8.12</u>	<u>BM</u>	<u>"</u>
<u>11:00</u>	<u>405</u>	<u>19.1</u>	<u>327</u>	<u>>1000</u>	<u>8.39</u>	<u>BM</u>	
<u>11:30</u>	<u>450</u>	<u>18.8</u>	<u>307</u>	<u>>1000</u>	<u>8.51</u>	<u>BM</u>	<u>odor</u>
<u>12:00</u>	<u>500</u>	<u>18.9</u>	<u>291</u>	<u>>1000</u>	<u>8.43</u>	<u>BM</u>	
<u>12:30</u>	<u>545</u>	<u>19.5</u>	<u>307.8</u>	<u>>1000</u>	<u>8.35</u>	<u>BM</u>	<u>str odor</u>
<u>13:00</u>	<u>600</u>	<u>18.9</u>	<u>291.5</u>	<u>>1000</u>	<u>8.41</u>	<u>BM</u>	
<u>14:00</u>	<u>600</u>	<u>19.4</u>	<u>283</u>	<u>>1000</u>	<u>8.53</u>		
<u>14:30</u>	<u>650</u>	<u>19.9</u>	<u>284.9</u>	<u>>1000</u>	<u>8.55</u>		
<u>15:05</u>	<u>695</u>	<u>20.1</u>	<u>274.8</u>	<u>674</u>	<u>8.44</u>	<u>BM</u>	<u>stiff odor</u>

*If measured.

Stabilization = **Temp** ±1°C; **pH** ±0.2 units; **Sp. Cond.** ±10%; **Turb.** ±10%

WATER QUALITY READINGS DURING DEVELOPMENT (continued)

4/8

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
1530	740	19.7	273.9	745	8.39	BM	Slightly odor
1600	775	20.5	270	716	8.34	↓	"
1630	825	20.0	277.3	700	8.40	↓	"
1650	855	20.6	276.9	680	8.19		"
END OF DAY 4/8/22							
Total 1-3 = 650 gal, Total 4 = 225 gal = 875 gal total							
875 - 285 = 590 gal for day 4/8							

*If measured.
Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

PROJECT NAME: WUA Data Gap Well WELL NO.: WUABTFMW01
PROJECT NO.: _____ DATE: 4/9/22 FORM COMPLETED BY: LP

WELL CONSTRUCTION

TOTAL DEPTH BELOW MEASURING POINT (BMP) (FT): _____ BOREHOLE DIAMETER (IN): _____
TOTAL DEPTH BELOW LAND SURFACE (FT BLS): _____ WELL DIAMETER INSIDE (IN): _____
WELL PROTECTOR: YES NO PADLOCK NO.: _____ WELL DIAMETER OUTSIDE (IN): _____
SAND PACK INTERVAL (BLS) (FT): _____ SCREEN INTERVAL (BLS) (FT): _____

WATER VOLUME CALCULATION

DATE/TIME OF MEASUREMENT: _____
MEASURING POINT: _____ ELEV.: _____
WATER LEVEL INSTRUMENT USED: _____
INITIAL WATER LEVEL (BMP) (FT): _____
LINEAR FEET OF WATER: _____
LINEAR FEET SATURATED GRAVEL PACK: _____

ITEM	WATER VOLUME	
	FT ³	GAL
Well Casing		
Sand Pack		
Drilling Fluids		
TOTAL		

NOTE: Quantities are to be calculated prior to development.

*875 gal total for 2 days
i.e. we are starting w/
875 gallons*

DEVELOPMENT CRITERIA

METHOD OF DEVELOPMENT: Bailing w/ 40' 2" Dia PVC Bailer.
WATER VOLUME TO BE REMOVED (GAL): _____ WATER VOLUME ACTUALLY REMOVED (GAL): _____
TIME DEVELOPMENT STARTED: 0825 TIME DEVELOPMENT COMPLETED: 1625

NOTE: Development is to be performed in accordance with Standard Operating Procedure No. 8.

WATER QUALITY INSTRUMENTS

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
YSI PRO 1030		0715	LP	
HACH 2100A		0715	LP	

WATER QUALITY READINGS DURING DEVELOPMENT

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
0848	~905	13.8	350.1	508	8.27	LP	slight odor, tan
0933	~965	15.6	384.4	406	8.32	LP	no odor, tan
1000	~1025	13.4	389.4	454	8.45	LP	no odor, tan
1031	~1085	17.3	313.0	498	8.37	LP	no odor, tan
1103	~1145	18.1	311.8	568	8.34	LP	no odor, tan
1135	~1205	18.5	316.1	487	8.32	LP	no odor, tan
1151	~1265	19.2	312.3	355	8.30	LP	no odor, tan
1219	~1325	19.9	317.3	310	8.31	LP	no odor, tan
1315	~1385	20.1	321.3	404	8.52	LP	no odor, light tan
1425	~1445 (LP)	21.8	319.8	561	8.18	LP	no odor, cloudy

*If measured. 1505

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

840



[1505 gal cont.]

WATER QUALITY READINGS DURING DEVELOPMENT (continued)

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
1442	1535	21.2	323.1	331	8.18	UP	slightly cloudy
1508	1595	21.4	324.8	312	8.23	UP	slightly cloudy
1536	1650	21.3	324.1	377	8.33	UP	slightly cloudy
1603	1710	21.2	321.4	377	8.32	UP	slightly cloudy
Final Total Purged =							
1725							
Daily total =			815 gallons				

+60 gal in Tok 7
+60
+55 gal
+60 gal

slightly cloudy
slightly cloudy
slightly cloudy
slightly cloudy

*If measured.

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

PROJECT NAME: Data Gap Well WELL NO.: WUABFFMWO1
PROJECT NO.: _____ DATE: 4/10/22 FORM COMPLETED BY: L. Price

WELL CONSTRUCTION

TOTAL DEPTH BELOW MEASURING POINT (BMP) (FT): _____ BOREHOLE DIAMETER (IN): _____
TOTAL DEPTH BELOW LAND SURFACE (FT BLS): _____ WELL DIAMETER INSIDE (IN): _____
WELL PROTECTOR: YES NO PADLOCK NO.: _____ WELL DIAMETER OUTSIDE (IN): _____
SAND PACK INTERVAL (BLS) (FT): _____ SCREEN INTERVAL (BLS) (FT): _____

WATER VOLUME CALCULATION

DATE/TIME OF MEASUREMENT: _____
MEASURING POINT: _____ ELEV.: _____
WATER LEVEL INSTRUMENT USED: _____
INITIAL WATER LEVEL (BMP) (FT): _____
LINEAR FEET OF WATER: _____
LINEAR FEET SATURATED GRAVEL PACK: _____

ITEM	WATER VOLUME	
	FT ³	GAL
Well Casing		
Sand Pack		
Drilling Fluids		
TOTAL		

NOTE: Quantities are to be calculated prior to development.

Yesterday's Total = 1725 gallons

DEVELOPMENT CRITERIA

METHOD OF DEVELOPMENT: Bailing w/ ~ 40' 2" Dia PVC Bailer
WATER VOLUME TO BE REMOVED (GAL): _____ WATER VOLUME ACTUALLY REMOVED (GAL): _____
TIME DEVELOPMENT STARTED: 0800 TIME DEVELOPMENT COMPLETED: _____

NOTE: Development is to be performed in accordance with Standard Operating Procedure No. 8.

WATER QUALITY INSTRUMENTS

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
<u>YSI PRO 1030</u>		<u>0715</u>	<u>LP</u>	
<u>HACH 2100Q</u>		<u>0715</u>	<u>LP</u>	

WATER QUALITY READINGS DURING DEVELOPMENT

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
<u>0805</u>	<u>initial</u>	<u>16.6</u>	<u>376.0</u>	<u>223</u>	<u>7.74</u>	<u>LP</u>	<u>slightly cloudy, no odor</u>
<u>0840</u>	<u>~1785</u>	<u>16.1</u>	<u>427.385.9</u>	<u>252</u>	<u>7.09</u>	<u>LP</u>	<u>mostly clear</u>
<u>0908</u>	<u>~1845</u>	<u>16.5</u>	<u>338.5</u>	<u>232</u>	<u>7.98</u>	<u>LP</u>	<u>mostly clear</u>
<u>0936</u>	<u>~1905</u>	<u>17.3</u>	<u>331.6</u>	<u>252</u>	<u>8.04</u>	<u>LP</u>	<u>slightly cloudy</u>
<u>1007</u>	<u>~1945</u>	<u>17.9</u>	<u>330.4</u>	<u>244</u>	<u>8.14</u>	<u>LP</u>	<u>slightly cloudy</u>
<u>1041</u>	<u>~2025</u>	<u>19.4</u>	<u>337.3</u>	<u>230</u>	<u>8.20</u>	<u>LP</u>	<u>slightly cloudy</u>
<u>1110</u>	<u>~2085</u>	<u>19.7</u>	<u>336.9</u>	<u>306</u>	<u>8.25</u>	<u>LP</u>	<u>slightly cloudy</u>
<u>1139</u>	<u>~2145</u>	<u>21.0</u>	<u>334.3</u>	<u>256</u>	<u>8.18</u>	<u>LP</u>	<u>slightly cloudy</u>
<u>1210</u>	<u>~2205</u>	<u>20.8</u>	<u>339.7</u>	<u>273</u>	<u>8.25</u>	<u>LP</u>	<u>slightly cloudy</u>
<u>1242</u>	<u>~2265</u>	<u>21.7</u>	<u>345.1</u>	<u>249</u>	<u>8.35</u>	<u>LP</u>	<u>slightly cloudy</u>

*If measured.

Stabilization = **Temp** ±1°C; **pH** ±0.2 units; **Sp. Cond.** ±10%; **Turb.** ±10%

2245



WATER QUALITY READINGS DURING DEVELOPMENT (continued)

+60
+60
+60
+60
+60

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
1313	2325	20.6	339.4	246	8.33	LP	slightly cloudy
1351	2385	20.1	337.9	210	8.34	LP	slightly cloudy
1418	2445	19.8	340.5	236	8.33	LP	slightly cloudy
1446	2505	20.9	334.9	177	8.31	LP	slightly cloudy
1518	2565	21.7	333.1	141	8.29	LP	mostly clear
<p>↙</p> <p>Approximation based on pumping 60 gal from (2) 30 gal drums</p> <p>However, Tote 8 = ~270 gal Tote 9 = ~260 gal Tote 10 = ~270 gal Tote 11 = ~5 gal</p> <p>Daily = ~805 gallons</p> <p>Grand total = 1725 gal + 805 gallons = <u>2530 gal</u></p> <p>The totes are graduated + in using these totals to estimate volume purged</p>							

*If measured.

Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

PROJECT NAME: Data Cap Well WELL NO.: WUAB FFMW01
 PROJECT NO.: _____ DATE: 4/11/22 FORM COMPLETED BY: R. Archuleta

WELL CONSTRUCTION

TOTAL DEPTH BELOW MEASURING POINT (BMP) (FT): 597.21 BOREHOLE DIAMETER (IN): 8
 TOTAL DEPTH BELOW LAND SURFACE (FT BLS): _____ WELL DIAMETER INSIDE (IN): 3
 WELL PROTECTOR: YES NO PADLOCK NO.: _____ WELL DIAMETER OUTSIDE (IN): _____
 SAND PACK INTERVAL (BLS) (FT): _____ SCREEN INTERVAL (BLS) (FT): _____

WATER VOLUME CALCULATION

DATE/TIME OF MEASUREMENT: 4/11/22 0800
 MEASURING POINT: TOC ELEV.: _____
 WATER LEVEL INSTRUMENT USED: _____
 INITIAL WATER LEVEL (BMP) (FT): 453.05
 LINEAR FEET OF WATER: _____
 LINEAR FEET SATURATED GRAVEL PACK: _____

ITEM	WATER VOLUME	
	FT ³	GAL
Well Casing		
Sand Pack		
Drilling Fluids		
TOTAL		<u>4250</u>

NOTE: Quantities are to be calculated prior to development.

Yesterday's Total = 2,530 gallons

DEVELOPMENT CRITERIA

METHOD OF DEVELOPMENT: Bailing w/ 2" PVC Sch 80 Bailers (~6 gallons)
 WATER VOLUME TO BE REMOVED (GAL): 4250 WATER VOLUME ACTUALLY REMOVED (GAL): 3430 (total)
 TIME DEVELOPMENT STARTED: 0840 TIME DEVELOPMENT COMPLETED: 1640

NOTE: Development is to be performed in accordance with Standard Operating Procedure No. 8.

WATER QUALITY INSTRUMENTS

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
<u>YSI Pro 1030</u>		<u>0830</u>	<u>BA</u>	
<u>HACH 2100 Q</u>		<u>0830</u>	<u>BA</u>	

WATER QUALITY READINGS DURING DEVELOPMENT

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
<u>0840</u>	<u>Initial/2530</u>	<u>17.01</u>	<u>332.2</u>	<u>58.9</u>	<u>6.84</u>	<u>BA</u>	<u>mostly clear.</u>
<u>0925</u>	<u>2620</u>	<u>19.7</u>	<u>493</u>	<u>132</u>	<u>5.53</u>	<u>BA</u>	<u>mostly clear. slight odor.</u>
<u>0945</u>	<u>2680</u>	<u>18.8</u>	<u>474</u>	<u>167</u>	<u>7.05</u>	<u>BA</u>	<u>"</u>
<u>1011</u>	<u>2740</u>	<u>18.4</u>	<u>328.2</u>	<u>147</u>	<u>7.50</u>	<u>BA</u>	<u>Slightly cloudy. slight</u>
<u>1045</u>	<u>2800</u>	<u>19.6</u>	<u>324.1</u>	<u>171</u>	<u>7.91</u>	<u>BA</u>	<u>odor</u>
<u>1130</u>	<u>2900</u>	<u>19.8</u>	<u>326.0</u>	<u>167</u>	<u>8.34</u>	<u>BA</u>	<u>"</u>
<u>1158</u>	<u>2980</u>	<u>20.3</u>	<u>325.6</u>	<u>160</u>	<u>8.42</u>	<u>BA</u>	<u>"</u>
<u>1248</u>	<u>3070</u>	<u>20.2</u>	<u>323.2</u>	<u>176</u>	<u>8.13</u>	<u>BA</u>	<u>"</u>
<u>1331</u>	<u>3140</u>	<u>20.5</u>	<u>315.0</u>	<u>238</u>	<u>8.36</u>	<u>BA</u>	<u>"</u>
<u>1400</u>	<u>3200</u>	<u>20.8</u>	<u>320.5</u>	<u>239</u>	<u>8.44</u>	<u>BA</u>	<u>"</u>

*If measured.

Stabilization = **Temp** ±1°C; **pH** ±0.2 units; **Sp. Cond.** ±10%; **Turb.** ±10%



WATER QUALITY READINGS DURING DEVELOPMENT (continued)

810
900

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
1519	3340	23.1	332.4	235	8.41	BA	Cloudy, slight odor. "
1640	3430	22.7	322.8	174	8.30	BA	
	Stop Development efforts for the day						
	- Daily volume = 900 gallons						
	- Total volume = 3430 gallons						
	Target volume = 4250 gallons						
	Remaining volume = 850 gallons.						

*If measured.
Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%

PROJECT NAME: Dater Gap Well WELL NO.: WUABFF MW01
 PROJECT NO.: _____ DATE: 4/12/22 FORM COMPLETED BY: B. Archuleta

WELL CONSTRUCTION

TOTAL DEPTH BELOW MEASURING POINT (BMP) (FT): 597.35 BOREHOLE DIAMETER (IN): 3
 TOTAL DEPTH BELOW LAND SURFACE (FT BLS): _____ WELL DIAMETER INSIDE (IN): 3
 WELL PROTECTOR: YES NO PADLOCK NO.: _____ WELL DIAMETER OUTSIDE (IN): _____
 SAND PACK INTERVAL (BLS) (FT): _____ SCREEN INTERVAL (BLS) (FT): _____

WATER VOLUME CALCULATION

DATE/TIME OF MEASUREMENT: 0810 4/12/22
 MEASURING POINT: TUC ELEV.: _____
 WATER LEVEL INSTRUMENT USED: Cascade's
 INITIAL WATER LEVEL (BMP) (FT): 452.9
 LINEAR FEET OF WATER: _____
 LINEAR FEET SATURATED GRAVEL PACK: _____

ITEM	WATER VOLUME	
	FT ³	GAL
Well Casing		
Sand Pack		
Drilling Fluids		
TOTAL		<u>4250</u>

NOTE: Quantities are to be calculated prior to development.

Continue from yesterday @ 3430 gallons

DEVELOPMENT CRITERIA

METHOD OF DEVELOPMENT: Bailing 2" 40-ft PVC Bailer (6.5 gallons)
 WATER VOLUME TO BE REMOVED (GAL): 4250 WATER VOLUME ACTUALLY REMOVED (GAL): 4140 (total)
 TIME DEVELOPMENT STARTED: 0830 TIME DEVELOPMENT COMPLETED: 1618

NOTE: Development is to be performed in accordance with Standard Operating Procedure No. 8.

WATER QUALITY INSTRUMENTS

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
<u>YSI Pro 1030</u>		<u>0815</u>	<u>BA</u>	
<u>HACH 2100Q</u>		<u>0815</u>	<u>BA</u>	

WATER QUALITY READINGS DURING DEVELOPMENT

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
<u>4/12/22 0832</u>	<u>Initial=3430</u>	<u>18.4</u>	<u>328.8</u>	<u>315</u>	<u>6.51</u>	<u>BA</u>	<u>Cloudy slight to moderate</u>
<u>+60</u>	<u>3490</u>	<u>17.8</u>	<u>330.1</u>	<u>172</u>	<u>8.09</u>	<u>BA</u>	<u>odor. Bail bottom of well.</u>
<u>120</u>	<u>3550</u>	<u>17.6</u>	<u>323.3</u>	<u>151</u>	<u>8.05</u>	<u>BA</u>	<u>slightly cloudy, slight odor.</u>
<u>180</u>	<u>3610</u>	<u>18.1</u>	<u>323.9</u>	<u>140</u>	<u>8.25</u>	<u>BA</u>	<u>Slightly Cloudy, mod. odor.</u>
<u>240</u>	<u>373670</u>	<u>18.6</u>	<u>471</u>	<u>165</u>	<u>6.80</u>	<u>BA</u>	
<u>300</u>	<u>3780</u>	<u>17.5</u>	<u>561</u>	<u>131</u>	<u>8.54</u>	<u>BA</u>	
<u>330</u>	<u>3760</u>	<u>20.0</u>	<u>354.7</u>	<u>152</u>	<u>8.02</u>	<u>BA</u>	
<u>370</u>	<u>3800</u>	<u>18.4</u>	<u>328.1</u>	<u>135</u>	<u>7.97</u>	<u>BA</u>	
<u>430</u>	<u>3860</u>	<u>19.1</u>	<u>327.2</u>	<u>154</u>	<u>7.91</u>	<u>BA</u>	
<u>490</u>	<u>3920</u>	<u>18.4</u>	<u>330.3</u>	<u>143</u>	<u>8.06</u>	<u>BA</u>	

*If measured.

Stabilization = **Temp** ±1°C; **pH** ±0.2 units; **Sp. Cond.** ±10%; **Turb.** ±10%

WATER QUALITY READINGS DURING DEVELOPMENT (continued)

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (μS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
1450	Switch over to bailing screen zone (bottom of well).						
+570 1500	4000	@ ~ 3940 gallons total.					
1500	4000	19.5	323.1	121	8.09	BA	Slightly cloudy. Slight odor.
+600 1532	4030	19.8	322.2	183	8.00	BA	Cloudy.
1545	Finished working screened zone. Bailed 120 gallons out.						
	Only got a little more cloudy. Inhoff cone						
	samples collected were < 0.5 ml. Switch back						
	over to remaining/bailing from upper column.						
650 +710 1549	4080	19.1	331.6	268	7.95	BA	cloudy. No odor.
1618	4140	19.2	319.4	125	8.25	BA	Slightly cloudy. Slight odor.
	Daily Dev. Volume = 710						
	Total Volume = 4140						
	Target " = 4250						
	Remaining " = 110 gallons						

*If measured.
 Stabilization = **Temp** ±1°C; **pH** ±0.2 units; **Sp. Cond.** ±10%; **Turb.** ±10%

PROJECT NAME: Data Gap Well WELL NO.: WUARBFFMWO1
 PROJECT NO.: _____ DATE: 4/13/22 FORM COMPLETED BY: B. Archuleta

WELL CONSTRUCTION

TOTAL DEPTH BELOW MEASURING POINT (BMP) (FT): 597.2 BOREHOLE DIAMETER (IN): 3
 TOTAL DEPTH BELOW LAND SURFACE (FT BLS): _____ WELL DIAMETER INSIDE (IN): 3
 WELL PROTECTOR: YES NO PADLOCK NO.: _____ WELL DIAMETER OUTSIDE (IN): _____
 SAND PACK INTERVAL (BLS) (FT): _____ SCREEN INTERVAL (BLS) (FT): _____

WATER VOLUME CALCULATION

DATE/TIME OF MEASUREMENT: 4/13/22 0807
 MEASURING POINT: TOC ELEV.: _____
 WATER LEVEL INSTRUMENT USED: _____
 INITIAL WATER LEVEL (BMP) (FT): 453.2
 LINEAR FEET OF WATER: _____
 LINEAR FEET SATURATED GRAVEL PACK: _____

ITEM	WATER VOLUME	
	FT ³	GAL
Well Casing		
Sand Pack		
Drilling Fluids		
TOTAL		<u>4250</u>

NOTE: Quantities are to be calculated prior to development.

Continued from yesterday (4140)

DEVELOPMENT CRITERIA

METHOD OF DEVELOPMENT: 2" Bailer (40-ft) PVC (~6.5 gallons)
 WATER VOLUME TO BE REMOVED (GAL): 4250 WATER VOLUME ACTUALLY REMOVED (GAL): 4345 (Total)
 TIME DEVELOPMENT STARTED: 0821 TIME DEVELOPMENT COMPLETED: 1053

NOTE: Development is to be performed in accordance with Standard Operating Procedure No. 8.

WATER QUALITY INSTRUMENTS

INSTRUMENT	SERIAL NO.	TIME CALIBRATION PERFORMED	TECH	COMMENTS
YSI Pro 1030		0800	BA	<i>Cold Temp. Sp Cond. may be a little low</i>
HACH 2100Q		0800	BA	

WATER QUALITY READINGS DURING DEVELOPMENT

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
0830	Initial (4140)	15.2	331.2	911	6.82	BA	<i>Slightly turbid.</i>
	<i>↳ Bailed from bottom of well. Some v.f.g. sand + silt.</i>						
0910	4200	15.0	271.9	28.8	7.84		<i>Clear. Slight odor.</i>
0938	4235	16.9	271.4	86.9	8.24		<i>mostly clear slight odor</i>
0953	4255	17.0	267.5	59.8	8.25		<i>"</i>
1003	4265	17.6	267.6	49.2	8.35		<i>Clear. Slight odor</i>
1014	4285	17.2	271.9	46.2	8.23		<i>"</i>
1027	4300	17.6	261.3	28.8	8.21		<i>"</i>
1035	4315	17.5	266.1	34.2	8.15		<i>"</i>
1043	4330	17.8	253.1	32.4	8.05		<i>"</i>

*If measured.

Stabilization = **Temp** ±1°C; **pH** ±0.2 units; **Sp. Cond.** ±10%; **Turb.** ±10%

WATER QUALITY READINGS DURING DEVELOPMENT (continued)

DATE/TIME	TOTAL WATER PURGED (gal)	TEMP (°C)	CONDUCTIVITY (µS/cm)	TURB (NTU)*	pH	TECH	COMMENTS
1053	4345	17.6	272.6	38.8	8.19	BA	clear slight odor
Daily Total = 205 gallons Project total = 4345 gallons							
1053	Development Complete						

*If measured.
 Stabilization = Temp ±1°C; pH ±0.2 units; Sp. Cond. ±10%; Turb. ±10%