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 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO.	30-025-48081
5. Indicate Type of Lease STATE ☐ FEE ☒	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Independence AGI	
8. Well Number	1
9. OGRID Number	372224
10. Pool name or Wildcat AGI: Devonian/Fusselman	

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☐ Other: Acid Gas Injection Well ☒

2. Name of Operator
Ameredev Operating, LLC

3. Address of Operator
2901 Via Fortuna, Ste. 600, Austin, TX 78746

4. Well Location
 Unit Letter C : 829 feet from the NORTH line and 1,443 feet from the EAST line
 Section 20 Township 25S Range 36E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3,103 (GR)

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☒
OTHER: ☐	OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. This well is permitted under NMOCC Order #R-21455-A as a UIC Class II AGI well.

The 12.25-inch borehole was drilled to 13,300 feet from January 30 to February 13, 2021, but the 9 5/8-inch 3rd Intermediate Casing was not installed until March 2, 2021 due to loss circulation, gas production, and icing conditions. The casing float shoe was set at 13,233 feet and cemented in two stages as indicated below. Cement densities range from 11.5 to 14.5 lb./gal and cement was circulated to the surface following each stage with 1,015 sacks on the final stage. The casing tally, cement lab. report, cementing activity report, BOPE testing charts, casing test/FIT results, and an updated well diagram are attached. A CBL was submitted via NMOCEDocs site.

Casing	Joints	Size	Wt. (lb/ft)	Grade	Threads	Set Depth	Cement	Type/Class	Sacks	Yield
3 rd Interm.	316	9.625"	47.0	L80/P110	BTC	0 – 13,233	Stage 1 Lead	NeoCem	750	2.25
							Stage 1 Tail	VersaCem	410	1.23
	ECP	Top (Ft)	DVT	Top (Ft)			Stage 2 Lead	NeoCem	2,440	2.68
	#1	7,292	#1	7,289			Stage 2 Tail	VersaCem	25	1.23

Upon completing the CBL, the BOPE for the Production Casing section was installed and successfully tested. The casing was tested at the surface, below the DVT, and an FIT was performed after drilling 10 feet into the new formation.

Spud Date:

December 27, 2020

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Dale Littlejohn TITLE Consultant to Ameredev DATE March 11, 2021

Type or print name Dale Littlejohn E-mail address: dale@geolex.com PHONE: 505-842-8000

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
 Conditions of Approval (if any): _____

Date: 03.02.2021 Hole TD: 13300												
Csg Specs @: 9.625 Casing P110 L80 #47 BTC Casing Set @: 13233												
Short Joint #1			Short Joint #2			Short Joint #3						
Weight	Running Order	Length	Running Depth ft/RKB	Landed Depth, top ft/RKB	Landed Depth, bttm ft/RKB	Capacity per jt bbls	Disp per jt bbls	Running Capacity bbls	Running CL Disp bbls	Strokes to fill	Running Ann Vol bbls	Running OP Disp bbls
	FS	1.68	1.68	13231.32	0.00	0.26	0.04	0.26	0.29	2.84	0.21	0.04
	1	42.27	43.95	13189.05	13231.32	6.53	1.02	6.79	7.64	74.34	5.44	1.06
	FC	1.26	45.21	13187.79	13189.05	0.19	0.03	6.99	7.86	76.47	5.59	1.09
	2	42.69	87.90	13145.10	13187.79	6.60	1.03	13.59	15.28	148.67	10.88	2.11
	3	40.66	128.56	13104.44	13145.10	6.29	0.98	19.87	22.34	217.45	15.91	3.09
	4	42.32	170.88	13062.12	13104.44	6.54	1.02	26.42	29.70	289.02	21.14	4.11
	5	42.86	213.74	13019.26	13062.12	6.63	1.03	33.04	37.14	361.52	26.44	5.14
	6	41.33	255.07	12977.93	13019.26	6.39	0.99	39.43	44.33	431.42	31.56	6.13
	7	42.28	297.35	12935.65	12977.93	6.54	1.02	45.97	51.67	502.94	36.79	7.15
	8	43.99	341.34	12891.66	12935.65	6.80	1.06	52.77	59.32	577.34	42.23	8.21
	9	42.55	383.89	12849.11	12891.66	6.58	1.02	59.35	66.71	649.31	47.50	9.23
	10	44.60	428.49	12804.51	12849.11	6.89	1.07	66.24	74.46	724.74	53.01	10.31
	11	42.31	470.80	12762.20	12804.51	6.54	1.02	72.78	81.82	796.31	58.25	11.32
	12	40.54	511.34	12721.66	12762.20	6.27	0.98	79.05	88.86	864.88	63.26	12.30
	13	44.48	555.82	12677.18	12721.66	6.88	1.07	85.93	96.59	940.11	68.77	13.37
	14	41.35	597.17	12635.83	12677.18	6.39	0.99	92.32	103.78	1010.05	73.88	14.36
	15	40.72	637.89	12595.11	12635.83	6.30	0.98	98.61	110.85	1078.92	78.92	15.34
	16	41.64	679.53	12553.47	12595.11	6.44	1.00	105.05	118.09	1149.35	84.07	16.34
	17	42.04	721.57	12511.43	12553.47	6.50	1.01	111.55	125.40	1220.46	89.27	17.35
	18	41.56	763.13	12469.87	12511.43	6.42	1.00	117.97	132.62	1290.75	94.42	18.35
	19	41.36	804.49	12428.51	12469.87	6.39	0.99	124.37	139.81	1360.71	99.53	19.35
	20	41.56	846.05	12386.95	12428.51	6.42	1.00	130.79	147.03	1431.00	104.67	20.35
	21	41.71	887.76	12345.24	12386.95	6.45	1.00	137.24	154.28	1501.55	109.84	21.35
	22	41.32	929.08	12303.92	12345.24	6.39	0.99	143.63	161.46	1571.44	114.95	22.35
	23	42.73	971.81	12261.19	12303.92	6.61	1.03	150.24	168.88	1643.71	120.23	23.37
	24	40.20	1012.01	12220.99	12261.19	6.21	0.97	156.45	175.87	1711.71	125.21	24.34
	25	41.75	1053.76	12179.24	12220.99	6.45	1.00	162.90	183.12	1782.32	130.37	25.34
	26	44.47	1098.23	12134.77	12179.24	6.87	1.07	169.78	190.85	1857.54	135.88	26.41
	27	42.22	1140.45	12092.55	12134.77	6.53	1.02	176.31	198.19	1928.95	141.10	27.43
	28	39.90	1180.35	12052.65	12092.55	6.17	0.96	182.47	205.12	1996.43	146.04	28.39
	29	44.26	1224.61	12008.39	12052.65	6.84	1.06	189.32	212.81	2071.29	151.51	29.45
	30	41.22	1265.83	11967.17	12008.39	6.37	0.99	195.69	219.98	2141.01	156.61	30.44
	31	42.10	1307.93	11925.07	11967.17	6.51	1.01	202.20	227.29	2212.22	161.82	31.46
	32	42.32	1350.25	11882.75	11925.07	6.54	1.02	208.74	234.65	2283.80	167.06	32.48
	33	41.15	1391.40	11841.60	11882.75	6.36	0.99	215.10	241.80	2353.40	172.15	33.46
	34	42.19	1433.59	11799.41	11841.60	6.52	1.01	221.62	249.13	2424.76	177.37	34.48
	35	42.20	1475.79	11757.21	11799.41	6.52	1.01	228.15	256.46	2496.14	182.59	35.49
	36	41.99	1517.78	11715.22	11757.21	6.49	1.01	234.64	263.76	2567.16	187.78	36.50
	37	44.61	1567.39	11670.61	11715.22	6.90	1.07	241.53	271.51	2642.61	193.30	37.58
	38	42.18	1604.57	11628.43	11670.61	6.52	1.01	248.06	278.84	2713.96	198.52	38.59
	39	41.96	1646.53	11586.47	11628.43	6.49	1.01	254.54	286.14	2784.93	203.71	39.60
	40	42.19	1688.72	11544.28	11586.47	6.52	1.01	261.06	293.47	2856.29	208.93	40.62
	41	42.19	1730.91	11502.09	11544.28	6.52	1.01	267.59	300.80	2927.65	214.15	41.63
	42	44.45	1775.36	11457.64	11502.09	6.87	1.07	274.46	308.52	3002.83	219.65	42.70
	43	39.91	1815.27	11417.73	11457.64	6.17	0.96	280.63	315.46	3070.33	224.59	43.66
	44	42.31	1857.58	11375.42	11417.73	6.54	1.02	287.17	322.81	3141.90	229.82	44.68
	45	41.90	1899.48	11333.52	11375.42	6.48	1.01	293.65	330.09	3212.76	235.01	45.68
	46	44.33	1943.81	11289.19	11333.52	6.85	1.07	300.50	337.80	3287.74	240.49	46.75
	47	41.84	1985.65	11247.35	11289.19	6.47	1.01	306.97	345.07	3358.51	245.67	47.76
	48	44.78	2030.43	11202.57	11247.35	6.92	1.08	313.89	352.85	3434.25	251.21	48.83
	49	41.56	2071.99	11161.01	11202.57	6.42	1.00	320.32	360.07	3504.55	256.35	49.83
	50	41.80	2113.79	11119.21	11161.01	6.46	1.01	326.78	367.34	3575.25	261.52	50.84
	51	41.37	2155.16	11077.84	11119.21	6.40	1.00	333.17	374.53	3645.22	266.64	51.83
	52	42.23	2197.39	11035.61	11077.84	6.53	1.02	339.70	381.87	3716.65	271.87	52.85
	53	42.32	2239.71	10993.29	11035.61	6.54	1.02	346.24	389.22	3788.23	277.10	53.87
	54	41.48	2281.19	10951.81	10993.29	6.41	1.00	352.66	396.43	3858.39	282.23	54.87
	55	41.88	2323.07	10909.93	10951.81	6.47	1.01	359.13	403.71	3929.22	287.41	55.87
	56	41.91	2364.98	10868.02	10909.93	6.48	1.01	365.61	410.99	4000.11	292.60	56.88
	57	41.93	2406.91	10826.09	10868.02	6.48	1.01	372.09	418.28	4071.03	297.79	57.89
	58	41.02	2447.93	10785.07	10826.09	6.34	0.99	378.43	425.40	4140.41	302.86	58.88
	59	42.20	2490.13	10742.87	10785.07	6.52	1.01	384.96	432.74	4211.78	308.08	59.89
	60	42.04	2532.17	10700.83	10742.87	6.50	1.01	391.46	440.04	4282.89	313.29	60.90
	61	41.00	2573.17	10659.83	10700.83	6.34	0.99	397.79	447.17	4352.24	318.36	61.89
	62	42.56	2615.73	10617.27	10659.83	6.58	1.02	404.37	454.57	4424.22	323.62	62.91
	63	42.34	2658.07	10574.93	10617.27	6.55	1.02	410.92	461.92	4495.84	328.86	63.93
	64	42.24	2700.31	10532.69	10574.93	6.53	1.02	417.45	469.26	4567.28	334.09	64.95
	65	44.10	2744.41	10488.59	10532.69	6.82	1.06	424.27	476.93	4641.87	339.54	66.01
	66	41.01	2785.42	10447.58	10488.59	6.34	0.99	430.61	484.05	4711.24	344.62	66.99
	67	42.31	2827.73	10405.27	10447.58	6.54	1.02	437.15	491.41	4782.80	349.85	68.01
	68	41.76	2869.49	10363.51	10405.27	6.46	1.00	443.60	498.66	4853.43	355.02	69.01
	69	39.53	2909.02	10323.98	10363.51	6.11	0.95	449.71	505.53	4920.29	359.91	69.97
	70	44.59	2953.61	10279.39	10323.98	6.89	1.07	456.61	513.28	4995.71	365.43	71.04
	71	44.60	2998.21	10234.79	10279.39	6.89	1.07	463.50	521.03	5071.15	370.94	72.11
	72	41.05	3039.26	10193.74	10234.79	6.35	0.99	469.85	528.17	5140.58	376.02	73.10
	73	41.65	3080.91	10152.09	10193.74	6.44	1.00	476.29	535.41	5211.03	381.18	74.10
	74	42.31	3123.22	10109.78	10152.09	6.54	1.02	482.83	542.76	5282.59	386.41	75.12
	75	42.96	3166.18	10066.82	10109.78	6.64	1.03	489.47	550.22	5355.25	391.73	76.15

76	41.62	3207.80	10025.20	10066.82	6.43	1.00	495.90	557.46	5425.65	396.88	77.15
77	42.20	3250.00	9983.00	10025.20	6.52	1.01	502.43	564.79	5497.02	402.10	78.17
78	41.30	3291.30	9941.70	9983.00	6.38	0.99	508.81	571.97	5566.88	407.21	79.16
79	43.54	3334.84	9898.16	9941.70	6.73	1.05	515.54	579.53	5640.52	412.59	80.21
80	42.22	3377.06	9855.94	9898.16	6.53	1.02	522.07	586.87	5711.93	417.82	81.22
81	44.37	3421.43	9811.57	9855.94	6.86	1.07	528.93	594.58	5786.98	423.31	82.29
82	43.11	3464.54	9768.46	9811.57	6.66	1.04	535.59	602.07	5859.89	428.64	83.33
83	44.00	3508.54	9724.46	9768.46	6.80	1.06	542.40	609.72	5934.31	434.08	84.38
84	44.45	3552.99	9680.01	9724.46	6.87	1.07	549.27	617.44	6009.50	439.58	85.45
85	41.65	3594.64	9638.36	9680.01	6.44	1.00	555.71	624.68	6079.94	444.74	86.46
86	42.37	3637.01	9595.99	9638.36	6.55	1.02	562.26	632.04	6151.61	449.98	87.47
87	43.32	3680.33	9552.67	9595.99	6.70	1.04	568.95	639.57	6224.88	455.34	88.52
88	41.06	3721.39	9511.61	9552.67	6.35	0.99	575.30	646.71	6294.33	460.42	89.50
89	41.28	3762.67	9470.33	9511.61	6.38	0.99	581.68	653.88	6364.15	465.52	90.50
90	42.71	3805.38	9427.62	9470.33	6.60	1.03	588.29	661.30	6436.39	470.81	91.52
91	44.64	3850.02	9382.98	9427.62	6.90	1.07	595.19	669.06	6511.89	476.33	92.60
92	44.43	3894.45	9338.55	9382.98	6.87	1.07	602.06	676.78	6587.04	481.83	93.67
93	44.33	3938.78	9294.22	9338.55	6.85	1.07	608.91	684.49	6662.02	487.31	94.73
94	41.09	3979.87	9253.13	9294.22	6.35	0.99	615.26	691.63	6731.52	492.40	95.72
95	40.85	4020.72	9212.28	9253.13	6.32	0.98	621.58	698.73	6800.61	497.45	96.70
96	42.05	4062.77	9170.23	9212.28	6.50	1.01	628.08	706.03	6871.73	502.65	97.71
97	44.07	4106.84	9126.16	9170.23	6.81	1.06	634.89	713.69	6946.27	508.11	98.77
98	44.58	4151.42	9081.58	9126.16	6.89	1.07	641.78	721.44	7021.68	513.62	99.85
99	41.61	4193.03	9039.97	9081.58	6.43	1.00	648.21	728.67	7092.06	518.77	100.85
100	44.62	4237.65	8995.35	9039.97	6.90	1.07	655.11	736.42	7167.53	524.29	101.92
101	42.59	4280.24	8952.76	8995.35	6.58	1.02	661.70	743.83	7239.56	529.56	102.95
102	42.19	4322.43	8910.57	8952.76	6.52	1.01	668.22	751.16	7310.92	534.78	103.96
103	40.17	4362.60	8870.40	8910.57	6.21	0.97	674.43	758.14	7378.86	539.75	104.93
104	41.20	4403.80	8829.20	8870.40	6.37	0.99	680.80	765.30	7448.55	544.85	105.92
105	41.94	4445.74	8787.26	8829.20	6.48	1.01	687.28	772.59	7519.49	550.04	106.93
106	41.19	4486.93	8746.07	8787.26	6.37	0.99	693.65	779.75	7589.16	555.13	107.92
107	41.91	4528.84	8704.16	8746.07	6.48	1.01	700.13	787.03	7660.04	560.32	108.92
108	42.18	4571.02	8661.98	8704.16	6.52	1.01	706.65	794.36	7731.38	565.54	109.94
109	42.00	4613.02	8619.98	8661.98	6.49	1.01	713.14	801.66	7802.42	570.73	110.95
110	42.43	4655.45	8577.55	8619.98	6.56	1.02	719.70	809.03	7874.19	575.98	111.97
111	42.35	4697.80	8535.20	8577.55	6.55	1.02	726.25	816.39	7945.82	581.22	112.99
112	42.39	4740.19	8492.81	8535.20	6.55	1.02	732.80	823.76	8017.52	586.47	114.01
113	42.38	4782.57	8450.43	8492.81	6.55	1.02	739.35	831.12	8089.20	591.71	115.03
114	42.02	4824.59	8408.41	8450.43	6.50	1.01	745.85	838.42	8160.27	596.91	116.04
115	42.41	4867.00	8366.00	8408.41	6.56	1.02	752.41	845.79	8232.00	602.15	117.06
116	42.39	4909.39	8323.61	8366.00	6.55	1.02	758.96	853.16	8303.70	607.40	118.08
117	42.38	4951.77	8281.23	8323.61	6.55	1.02	765.51	860.53	8375.38	612.64	119.10
118	42.47	4994.24	8238.76	8281.23	6.57	1.02	772.08	867.91	8447.22	617.90	120.12
119	42.40	5036.64	8196.36	8238.76	6.55	1.02	778.63	875.27	8518.93	623.14	121.14
120	42.40	5079.04	8153.96	8196.36	6.55	1.02	785.18	882.64	8590.65	628.39	122.16
121	42.42	5121.46	8111.54	8153.96	6.56	1.02	791.74	890.01	8662.39	633.64	123.18
122	42.41	5163.87	8069.13	8111.54	6.56	1.02	798.30	897.38	8734.13	638.88	124.20
123	42.43	5206.30	8026.70	8069.13	6.56	1.02	804.86	904.76	8805.89	644.13	125.22
124	42.40	5248.70	7984.30	8026.70	6.55	1.02	811.41	912.13	8877.61	649.38	126.24
125	42.40	5291.10	7941.90	7984.30	6.55	1.02	817.97	919.50	8949.32	654.63	127.26
126	42.38	5333.48	7899.52	7941.90	6.55	1.02	824.52	926.86	9021.00	659.87	128.28
127	42.39	5375.87	7857.13	7899.52	6.55	1.02	831.07	934.23	9092.70	665.11	129.30
128	42.42	5418.29	7814.71	7857.13	6.56	1.02	837.63	941.60	9164.45	670.36	130.32
129	42.39	5460.68	7772.32	7814.71	6.55	1.02	844.18	948.96	9236.15	675.61	131.34
130	42.40	5503.08	7729.92	7772.32	6.55	1.02	850.74	956.33	9307.86	680.85	132.36
131	42.40	5545.48	7687.52	7729.92	6.55	1.02	857.29	963.70	9379.58	686.10	133.38
132	42.42	5587.90	7645.10	7687.52	6.56	1.02	863.85	971.07	9451.33	691.35	134.40
133	42.39	5630.29	7602.71	7645.10	6.55	1.02	870.40	978.44	9523.02	696.59	135.42
134	42.40	5672.69	7560.31	7602.71	6.55	1.02	876.96	985.81	9594.74	701.84	136.44
135	42.37	5715.06	7517.94	7560.31	6.55	1.02	883.51	993.17	9666.40	707.08	137.45
136	42.38	5757.44	7475.56	7517.94	6.55	1.02	890.06	1000.54	9738.09	712.32	138.47
137	41.99	5799.43	7433.57	7475.56	6.49	1.01	896.55	1007.83	9809.11	717.52	139.48
138	42.39	5841.82	7391.18	7433.57	6.55	1.02	903.11	1015.20	9880.80	722.76	140.50
139	42.39	5884.21	7348.79	7391.18	6.55	1.02	909.66	1022.57	9952.50	728.01	141.52
140	42.37	5926.58	7306.42	7348.79	6.55	1.02	916.21	1029.93	10024.17	733.25	142.54
PKR	14.54	5941.12	7291.88	7306.42	2.25	0.35	918.46	1032.46	10048.76	735.05	142.89
DV	2.84	5943.96	7289.04	7291.88	0.44	0.07	918.90	1032.95	10053.56	735.40	142.96
Pup	7.84	5951.80	7281.20	7289.04	1.21	0.19	920.11	1034.31	10066.82	736.37	143.15
141	42.41	5994.21	7238.79	7281.20	6.56	1.02	926.66	1041.68	10138.56	741.62	144.17
142	39.13	6033.34	7199.66	7238.79	6.05	0.94	932.71	1048.48	10204.74	746.46	145.11
143	42.22	6075.56	7157.44	7199.66	6.53	1.02	939.24	1055.82	10276.15	751.68	146.13
144	42.39	6117.95	7115.05	7157.44	6.55	1.02	945.79	1063.19	10347.85	756.92	147.14
145	42.40	6160.35	7072.65	7115.05	6.55	1.02	952.35	1070.55	10419.56	762.17	148.16
146	42.40	6202.75	7030.25	7072.65	6.55	1.02	958.90	1077.92	10491.28	767.42	149.18
147	41.83	6244.58	6988.42	7030.25	6.47	1.01	965.37	1085.19	10562.03	772.59	150.19
148	42.42	6287.00	6946.00	6988.42	6.56	1.02	971.93	1092.56	10633.78	777.84	151.21
149	42.38	6329.38	6903.62	6946.00	6.55	1.02	978.48	1099.93	10705.46	783.08	152.23
150	38.98	6368.36	6864.64	6903.62	6.03	0.94	984.51	1106.70	10771.39	787.91	153.17
151	39.00	6407.36	6825.64	6864.64	6.03	0.94	990.53	1113.48	10837.35	792.73	154.11
152	42.39	6449.75	6783.25	6825.64	6.55	1.02	997.09	1120.85	10909.05	797.98	155.12
153	40.32	6490.07	6742.93	6783.25	6.23	0.97	1003.32	1127.85	10977.25	802.96	156.09
154	39.04	6529.11	6703.89	6742.93	6.04	0.94	1009.36	1134.64	11043.28	807.79	157.03
155	40.30	6569.41	6663.59	6703.89	6.23	0.97	1015.59	1141.64	11111.44	812.78	158.00
156	42.06	6611.47	6621.53	6663.59	6.50	1.01	1022.09	1148.95	11182.58	817.98	159.01
157	39.13	6650.60	6582.40	6621.53	6.05	0.94	1028.14	1155.75	11248.77	822.83	159.96

158	42.41	6693.01	6539.99	6582.40	6.56	1.02	1034.69	1163.12	11320.50	828.07	160.98
159	42.44	6735.45	6497.55	6539.99	6.56	1.02	1041.25	1170.50	11392.28	833.32	162.00
160	42.42	6777.87	6455.13	6497.55	6.56	1.02	1047.81	1177.87	11464.03	838.57	163.02
161	42.42	6820.29	6412.71	6455.13	6.56	1.02	1054.37	1185.24	11535.78	843.82	164.04
162	39.01	6859.30	6373.70	6412.71	6.03	0.94	1060.40	1192.02	11601.76	848.65	164.98
163	40.39	6899.69	6333.31	6373.70	6.24	0.97	1066.65	1199.04	11670.08	853.64	165.95
164	42.42	6942.11	6290.89	6333.31	6.56	1.02	1073.20	1206.41	11741.83	858.89	166.97
165	42.44	6984.55	6248.45	6290.89	6.56	1.02	1079.76	1213.79	11813.61	864.14	167.99
166	42.44	7026.99	6206.01	6248.45	6.56	1.02	1086.32	1221.16	11885.39	869.39	169.01
167	42.43	7069.42	6163.58	6206.01	6.56	1.02	1092.88	1228.53	11957.16	874.64	170.03
168	39.01	7108.43	6124.57	6163.58	6.03	0.94	1098.91	1235.31	12023.14	879.47	170.97
169	42.42	7150.85	6082.15	6124.57	6.56	1.02	1105.47	1242.69	12094.89	884.72	171.99
170	39.12	7189.97	6043.03	6082.15	6.05	0.94	1111.52	1249.48	12161.05	889.56	172.93
171	42.40	7232.37	6000.63	6043.03	6.55	1.02	1118.08	1256.85	12232.77	894.80	173.95
172	42.42	7274.79	5958.21	6000.63	6.56	1.02	1124.63	1264.22	12304.52	900.05	174.97
173	42.42	7317.21	5915.79	5958.21	6.56	1.02	1131.19	1271.60	12376.27	905.30	175.99
174	42.41	7359.62	5873.38	5915.79	6.56	1.02	1137.75	1278.97	12448.00	910.55	177.01
175	40.38	7400.00	5833.00	5873.38	6.24	0.97	1143.99	1285.98	12516.30	915.54	177.98
176	42.40	7442.40	5790.60	5833.00	6.55	1.02	1150.54	1293.35	12588.01	920.79	179.00
177	42.44	7484.84	5748.16	5790.60	6.56	1.02	1157.11	1300.73	12659.79	926.04	180.02
178	42.41	7527.25	5705.75	5748.16	6.56	1.02	1163.66	1308.10	12731.53	931.29	181.04
179	42.42	7569.67	5663.33	5705.75	6.56	1.02	1170.22	1315.47	12803.28	936.53	182.06
180	42.40	7612.07	5620.93	5663.33	6.55	1.02	1176.77	1322.84	12874.99	941.78	183.08
181	38.37	7650.44	5582.56	5620.93	5.93	0.92	1182.71	1329.50	12939.89	946.53	184.00
182	40.41	7690.85	5542.15	5582.56	6.25	0.97	1188.95	1336.53	13008.24	951.53	184.97
183	42.41	7733.26	5499.74	5542.15	6.56	1.02	1195.51	1343.90	13079.97	956.77	185.99
184	42.40	7775.66	5457.34	5499.74	6.55	1.02	1202.06	1351.27	13151.69	962.02	187.01
185	40.40	7816.06	5416.94	5457.34	6.25	0.97	1208.31	1358.29	13220.02	967.02	187.99
186	40.41	7856.47	5376.53	5416.94	6.25	0.97	1214.56	1365.31	13288.37	972.02	188.96
187	39.04	7895.51	5337.49	5376.53	6.04	0.94	1220.59	1372.09	13354.40	976.85	189.90
188	42.40	7937.91	5295.09	5337.49	6.55	1.02	1227.15	1379.46	13426.11	982.09	190.92
189	40.21	7978.12	5254.88	5295.09	6.22	0.97	1233.36	1386.45	13494.12	987.07	191.88
190	42.44	8020.56	5212.44	5254.88	6.56	1.02	1239.92	1393.82	13565.91	992.32	192.90
191	42.41	8062.97	5170.03	5212.44	6.56	1.02	1246.48	1401.19	13637.64	997.57	193.92
192	42.43	8105.40	5127.60	5170.03	6.56	1.02	1253.04	1408.57	13709.40	1002.82	194.95
193	40.33	8145.73	5087.27	5127.60	6.23	0.97	1259.27	1415.58	13777.62	1007.81	195.92
194	39.10	8184.83	5048.17	5087.27	6.04	0.94	1265.32	1422.37	13843.75	1012.64	196.86
195	42.44	8227.27	5005.73	5048.17	6.56	1.02	1271.88	1429.75	13915.53	1017.89	197.88
196	42.44	8269.71	4963.29	5005.73	6.56	1.02	1278.44	1437.12	13987.32	1023.14	198.90
197	42.41	8312.12	4920.88	4963.29	6.56	1.02	1285.00	1444.49	14059.05	1028.39	199.92
198	41.33	8354.05	4878.95	4920.88	6.48	1.01	1291.48	1451.78	14129.97	1033.58	200.93
199	42.37	8396.42	4836.58	4878.95	6.55	1.02	1298.03	1459.14	14201.63	1038.82	201.94
200	41.00	8437.42	4795.58	4836.58	6.34	0.99	1304.37	1466.27	14270.98	1043.89	202.93
201	42.09	8479.51	4753.49	4795.58	6.51	1.01	1310.87	1473.58	14342.17	1049.10	203.94
202	41.94	8521.45	4711.55	4753.49	6.48	1.01	1317.36	1480.87	14413.11	1054.29	204.95
203	43.39	8564.84	4668.16	4711.55	6.71	1.04	1324.07	1488.41	14486.50	1059.66	206.00
204	42.40	8607.24	4625.76	4668.16	6.55	1.02	1330.62	1495.78	14558.21	1064.90	207.02
205	42.40	8649.64	4583.36	4625.76	6.55	1.02	1337.18	1503.15	14629.93	1070.15	208.04
206	41.82	8691.46	4541.54	4583.36	6.47	1.01	1343.64	1510.41	14700.66	1075.32	209.04
207	42.43	8733.89	4499.11	4541.54	6.56	1.02	1350.20	1517.79	14772.43	1080.57	210.06
208	42.40	8776.29	4456.71	4499.11	6.55	1.02	1356.75	1525.16	14844.14	1085.82	211.08
209	39.65	8815.94	4417.06	4456.71	6.13	0.95	1362.88	1532.05	14911.21	1090.73	212.03
210	42.40	8858.34	4374.66	4417.06	6.55	1.02	1369.44	1539.42	14982.92	1095.97	213.05
211	42.37	8900.71	4332.29	4374.66	6.55	1.02	1375.99	1546.78	15054.59	1101.21	214.07
212	41.95	8942.66	4290.34	4332.29	6.49	1.01	1382.47	1554.07	15125.54	1106.40	215.08
213	42.44	8985.10	4247.90	4290.34	6.56	1.02	1389.04	1561.44	15197.32	1111.65	216.10
214	42.40	9027.50	4205.50	4247.90	6.55	1.02	1395.59	1568.81	15269.04	1116.90	217.12
215	39.00	9066.50	4166.50	4205.50	6.03	0.94	1401.62	1575.59	15335.00	1121.73	218.06
216	42.40	9108.90	4124.10	4166.50	6.55	1.02	1408.17	1582.96	15406.72	1126.97	219.08
217	42.40	9151.30	4081.70	4124.10	6.55	1.02	1414.73	1590.33	15478.43	1132.22	220.10
218	42.39	9193.69	4039.31	4081.70	6.55	1.02	1421.28	1597.69	15550.13	1137.46	221.12
219	42.42	9236.11	3996.89	4039.31	6.56	1.02	1427.84	1605.06	15621.88	1142.71	222.14
220	42.39	9278.50	3954.50	3996.89	6.55	1.02	1434.39	1612.43	15693.58	1147.95	223.16
221	42.39	9320.89	3912.11	3954.50	6.55	1.02	1440.95	1619.80	15765.27	1153.20	224.18
222	40.03	9360.92	3872.08	3912.11	6.19	0.96	1447.13	1626.75	15832.98	1158.15	225.14
223	35.86	9396.78	3836.22	3872.08	5.54	0.86	1452.68	1632.99	15893.63	1162.59	226.00
224	35.75	9432.53	3800.47	3836.22	5.53	0.86	1458.20	1639.20	15954.10	1167.01	226.86
225	39.03	9471.56	3761.44	3800.47	6.03	0.94	1464.24	1645.98	16020.12	1171.84	227.80
226	35.55	9507.11	3725.89	3761.44	5.50	0.86	1469.73	1652.16	16080.25	1176.24	228.66
227	42.04	9549.15	3683.85	3725.89	6.50	1.01	1476.23	1659.47	16151.35	1181.44	229.67
228	42.04	9591.19	3641.81	3683.85	6.50	1.01	1482.73	1666.77	16222.46	1186.64	230.68
229	42.00	9633.19	3599.81	3641.81	6.49	1.01	1489.23	1674.07	16293.50	1191.84	231.69
230	42.40	9675.59	3557.41	3599.81	6.55	1.02	1495.78	1681.44	16365.21	1197.08	232.71
231	41.84	9717.43	3515.57	3557.41	6.47	1.01	1502.25	1688.71	16435.98	1202.26	233.72
232	38.48	9755.91	3477.09	3515.57	5.95	0.93	1508.20	1695.40	16501.06	1207.02	234.64
233	40.34	9796.25	3436.75	3477.09	6.24	0.97	1514.43	1702.41	16569.29	1212.01	235.61
234	42.42	9838.67	3394.33	3436.75	6.56	1.02	1520.99	1709.78	16641.04	1217.26	236.63
235	42.40	9881.07	3351.93	3394.33	6.55	1.02	1527.55	1717.15	16712.76	1222.51	237.65
236	35.89	9916.96	3316.04	3351.93	5.55	0.86	1533.09	1723.38	16773.46	1226.95	238.52
237	42.42	9959.38	3273.62	3316.04	6.56	1.02	1539.65	1730.76	16845.21	1232.19	239.54
238	42.09	10001.47	3231.53	3273.62	6.51	1.01	1546.16	1738.07	16916.40	1237.40	240.55
239	42.41	10043.88	3189.12	3231.53	6.56	1.02	1552.72	1745.44	16988.13	1242.65	241.57
240	42.44	10086.32	3146.68	3189.12	6.56	1.02	1559.28	1752.82	17059.92	1247.90	242.59
241	41.82	10128.14	3104.86	3146.68	6.47	1.01	1565.74	1760.08	17130.65	1253.07	243.59
242	42.44	10170.58	3062.42	3104.86	6.56	1.02	1572.30	1767.46	17202.43	1258.32	244.62

243	42.43	10213.01	3019.99	3062.42	6.56	1.02	1578.86	1774.83	17274.20	1263.57	245.64
244	42.07	10255.08	2977.92	3019.99	6.50	1.01	1585.37	1782.14	17345.36	1268.78	246.65
245	42.08	10297.16	2935.84	2977.92	6.51	1.01	1591.87	1789.46	17416.53	1273.98	247.66
246	42.40	10339.56	2893.44	2935.84	6.55	1.02	1598.43	1796.82	17488.24	1279.23	248.68
247	42.14	10381.70	2851.30	2893.44	6.51	1.01	1604.94	1804.15	17559.52	1284.44	249.69
248	42.42	10424.12	2808.88	2851.30	6.56	1.02	1611.50	1811.52	17631.27	1289.69	250.71
249	42.40	10466.52	2766.48	2808.88	6.55	1.02	1618.05	1818.89	17702.98	1294.94	251.73
250	42.40	10508.92	2724.08	2766.48	6.55	1.02	1624.61	1826.26	17774.70	1300.18	252.75
251	42.44	10551.36	2681.64	2724.08	6.56	1.02	1631.17	1833.63	17846.48	1305.43	253.77
252	42.41	10593.77	2639.23	2681.64	6.56	1.02	1637.72	1841.00	17918.21	1310.68	254.79
253	38.78	10632.55	2600.45	2639.23	6.00	0.93	1643.72	1847.74	17983.80	1315.48	255.73
254	42.44	10674.99	2558.01	2600.45	6.56	1.02	1650.28	1855.12	18055.59	1320.73	256.75
255	39.10	10714.09	2518.91	2558.01	6.04	0.94	1656.33	1861.91	18121.72	1325.57	257.69
256	38.90	10752.99	2480.01	2518.91	6.01	0.94	1662.34	1868.67	18187.52	1330.38	258.62
257	42.43	10795.42	2437.58	2480.01	6.56	1.02	1668.90	1876.04	18259.28	1335.63	259.64
258	40.15	10835.57	2397.43	2437.58	6.21	0.97	1675.11	1883.02	18327.19	1340.60	260.61
259	42.42	10877.99	2355.01	2397.43	6.56	1.02	1681.66	1890.39	18398.94	1345.85	261.63
260	40.36	10918.35	2314.65	2355.01	6.24	0.97	1687.90	1897.41	18467.20	1350.84	262.60
261	42.42	10960.77	2272.23	2314.65	6.56	1.02	1694.46	1904.78	18538.95	1356.09	263.62
262	42.41	11003.18	2229.82	2272.23	6.56	1.02	1701.02	1912.15	18610.69	1361.33	264.64
263	42.42	11045.60	2187.40	2229.82	6.56	1.02	1707.57	1919.52	18682.43	1366.58	265.66
264	42.15	11087.75	2145.25	2187.40	6.52	1.01	1714.09	1926.85	18753.73	1371.80	266.67
265	40.38	11128.13	2104.87	2145.25	6.24	0.97	1720.33	1933.86	18822.02	1376.79	267.65
266	42.42	11170.55	2062.45	2104.87	6.56	1.02	1726.89	1941.23	18893.77	1382.04	268.67
267	42.42	11212.97	2020.03	2062.45	6.56	1.02	1733.45	1948.61	18965.52	1387.29	269.69
268	39.16	11252.13	1980.87	2020.03	6.05	0.94	1739.50	1955.41	19031.76	1392.14	270.63
269	42.49	11294.62	1938.38	1980.87	6.57	1.02	1746.07	1962.80	19103.62	1397.39	271.65
270	38.77	11333.39	1899.61	1938.38	5.99	0.93	1752.06	1969.53	19169.20	1402.19	272.58
271	42.06	11375.45	1857.55	1899.61	6.50	1.01	1758.57	1976.84	19240.34	1407.39	273.59
272	42.42	11417.87	1815.13	1857.55	6.56	1.02	1765.12	1984.21	19312.09	1412.64	274.61
273	40.43	11458.30	1774.70	1815.13	6.25	0.97	1771.38	1991.24	19380.47	1417.64	275.59
274	40.32	11498.62	1734.38	1774.70	6.23	0.97	1777.61	1998.25	19448.67	1422.63	276.56
275	42.43	11541.05	1691.95	1734.38	6.56	1.02	1784.17	2005.62	19520.43	1427.88	277.58
276	39.94	11580.99	1652.01	1691.95	6.17	0.96	1790.34	2012.56	19587.99	1432.82	278.54
277	35.94	11616.93	1616.07	1652.01	5.56	0.86	1795.90	2018.81	19648.78	1437.27	279.40
278	40.30	11657.23	1575.77	1616.07	6.23	0.97	1802.13	2025.81	19716.94	1442.26	280.37
279	42.43	11699.66	1533.34	1575.77	6.56	1.02	1808.69	2033.18	19788.71	1447.50	281.39
280	39.59	11739.25	1493.75	1533.34	6.12	0.95	1814.81	2040.06	19855.67	1452.40	282.34
281	40.31	11779.56	1453.44	1493.75	6.23	0.97	1821.04	2047.07	19923.85	1457.39	283.31
282	39.11	11818.67	1414.33	1453.44	6.05	0.94	1827.09	2053.87	19990.00	1462.23	284.25
283	40.32	11858.99	1374.01	1414.33	6.23	0.97	1833.32	2060.87	20058.20	1467.22	285.22
284	40.23	11899.22	1333.78	1374.01	6.22	0.97	1839.54	2067.86	20126.24	1472.19	286.19
285	42.46	11941.68	1291.32	1333.78	6.56	1.02	1846.10	2075.24	20198.06	1477.45	287.21
286	40.38	11982.06	1250.94	1291.32	6.24	0.97	1852.34	2082.26	20266.35	1482.44	288.18
287	39.19	12021.25	1211.75	1250.94	6.06	0.94	1858.40	2089.07	20332.64	1487.29	289.13
288	42.42	12063.67	1169.33	1211.75	6.56	1.02	1864.96	2096.44	20404.39	1492.54	290.15
289	42.42	12106.09	1126.91	1169.33	6.56	1.02	1871.52	2103.81	20476.14	1497.79	291.17
290	42.42	12148.51	1084.49	1126.91	6.56	1.02	1878.08	2111.19	20547.89	1503.04	292.19
291	40.52	12189.03	1043.97	1084.49	6.26	0.97	1884.34	2118.23	20616.42	1508.05	293.16
292	42.17	12231.20	1001.80	1043.97	6.52	1.01	1890.86	2125.56	20687.75	1513.27	294.18
293	42.43	12273.63	959.37	1001.80	6.56	1.02	1897.42	2132.93	20759.51	1518.52	295.20
294	39.03	12312.66	920.34	959.37	6.03	0.94	1903.45	2139.71	20825.53	1523.35	296.14
295	40.34	12353.00	880.00	920.34	6.24	0.97	1909.69	2146.72	20893.76	1528.34	297.11
296	42.43	12395.43	837.57	880.00	6.56	1.02	1916.25	2154.10	20965.53	1533.59	298.13
297	39.13	12434.56	798.44	837.57	6.05	0.94	1922.30	2160.90	21031.71	1538.43	299.07
298	42.41	12476.97	756.03	798.44	6.56	1.02	1928.85	2168.27	21103.44	1543.68	300.09
299	42.41	12519.38	713.62	756.03	6.56	1.02	1935.41	2175.64	21175.17	1548.92	301.11
300	42.39	12561.77	671.23	713.62	6.55	1.02	1941.96	2183.00	21246.87	1554.17	302.13
301	42.40	12604.17	628.83	671.23	6.55	1.02	1948.52	2190.37	21318.59	1559.41	303.15
302	41.94	12646.11	586.89	628.83	6.48	1.01	1955.00	2197.66	21389.52	1564.60	304.16
303	42.39	12688.50	544.50	586.89	6.55	1.02	1961.56	2205.03	21461.22	1569.85	305.17
304	42.41	12730.91	502.09	544.50	6.56	1.02	1968.11	2212.40	21532.95	1575.09	306.19
305	41.61	12772.52	460.48	502.09	6.43	1.00	1974.54	2219.63	21603.33	1580.24	307.20
306	41.54	12814.06	418.94	460.48	6.42	1.00	1980.97	2226.85	21673.59	1585.38	308.19
307	42.43	12856.49	376.51	418.94	6.56	1.02	1987.53	2234.22	21745.36	1590.63	309.22
308	42.44	12898.93	334.07	376.51	6.56	1.02	1994.09	2241.59	21817.14	1595.88	310.24
309	42.40	12941.33	291.67	334.07	6.55	1.02	2000.64	2248.96	21888.86	1601.13	311.26
310	42.40	12983.73	249.27	291.67	6.55	1.02	2007.20	2256.33	21960.57	1606.37	312.28
311	42.40	13026.13	206.87	249.27	6.55	1.02	2013.75	2263.70	22032.29	1611.62	313.30
312	42.39	13068.52	164.48	206.87	6.55	1.02	2020.30	2271.07	22103.98	1616.86	314.31
313	42.41	13110.93	122.07	164.48	6.56	1.02	2026.86	2278.44	22175.72	1622.11	315.33
314	42.40	13153.33	79.67	122.07	6.55	1.02	2033.42	2285.80	22247.43	1627.36	316.35
315	42.41	13195.74	37.26	79.67	6.56	1.02	2039.97	2293.17	22319.16	1632.60	317.37
316	42.45	13238.19	-5.19	37.26	6.56	1.02	2046.53	2300.55	22390.96	1637.85	318.40

HALLIBURTON**Permian Basin****Lab Results – 1st Stage Lead****Job Information**

Request/Slurry	2669541/2	Rig Name	Citadel 3	Date	28/FEB/2021
Submitted By	Haley Conces	Job Type	Intermediate Casing	Bulk Plant	
Customer	Ameredev Operating, LLC	Location	Lea	Well	Independence AGI 1

Well Information

Casing/Liner Size	9.625 in	Depth MD	13200 ft	BHST	172°F
Hole Size	12.25 in	Depth TVD	13200 ft	BHCT	137°F

Cement Information - Lead Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Cement Properties</u>		
		NeoCem™ Cement	Slurry Density	11.5	lbm/gal
100	% BWOC	Cement Blend	Slurry Yield	2.25	ft3/sack
13.3	gal/sack	Fresh Water	Water Requirement	13.3	gal/sack
			Water Source	Fresh Water	

Pilot Test Results Request ID 2669541/2**Thickening Time - Thixotropic Cup**

Temp (degF)	Reached in (min)	Pressure (psi)	Start Bc	26 Bc (hh:mm)	37 Bc (hh:mm)	End Time (hh:mm)	End Bc
137	48	6900	6	9:47	9:59	10:10	40.9

Pilot Test Results Request ID 2660761/3**Free Fluid API 10B-2**

Con. Temp (degF)	Cond. Time (min)	Static T. (F)	Static time (min)	Incl. (deg)	% Fluid
131	30	80	120	90	0

API Rheology

Temp (degF)	300	200	100	60	30	6	3
80	19	15	11	9	7	18	4

API Rheology

Temp (degF)	300	200	100	60	30	6	3	Cond Time (min)	Cond Temp (degF)
131	31	26	18	15	12	8	8	30	131

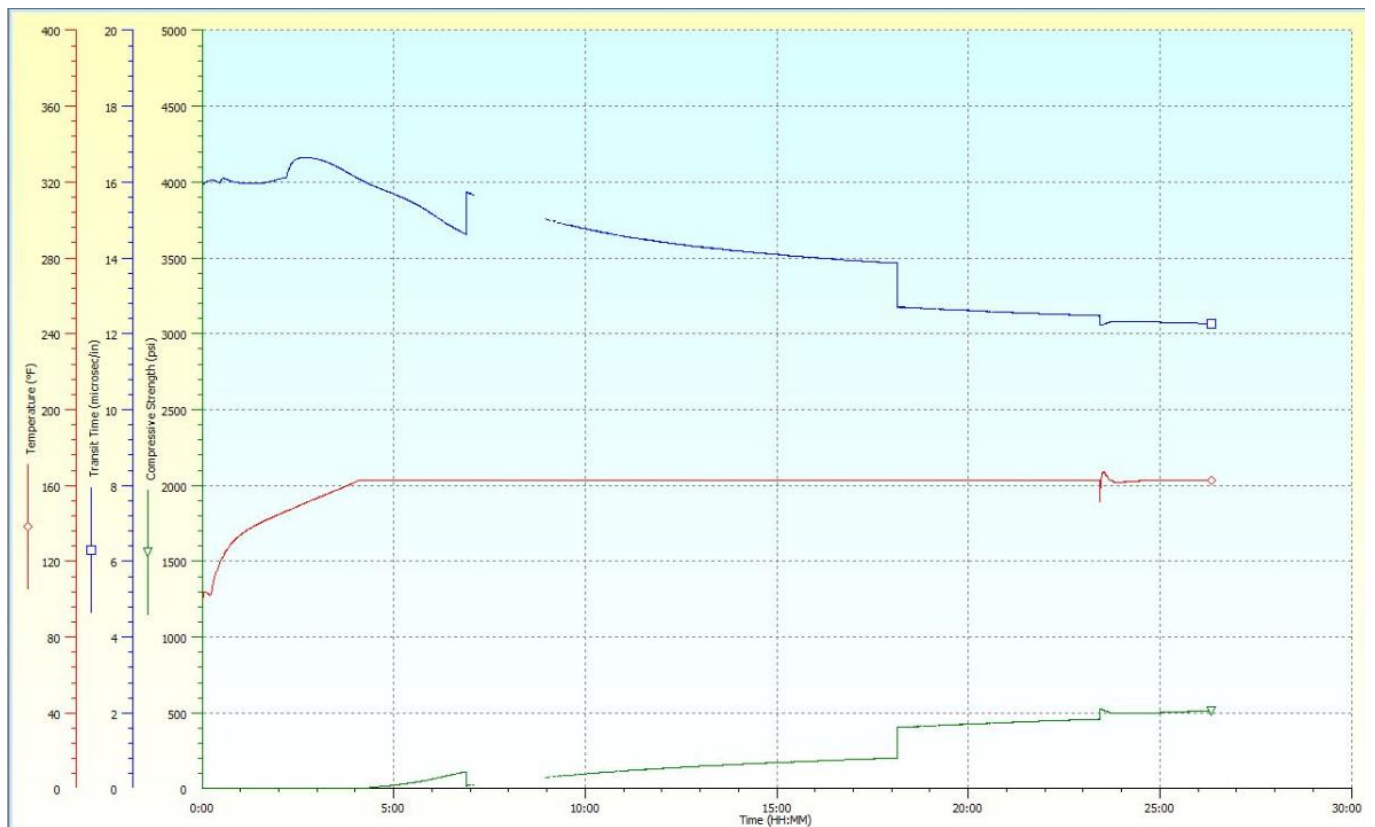
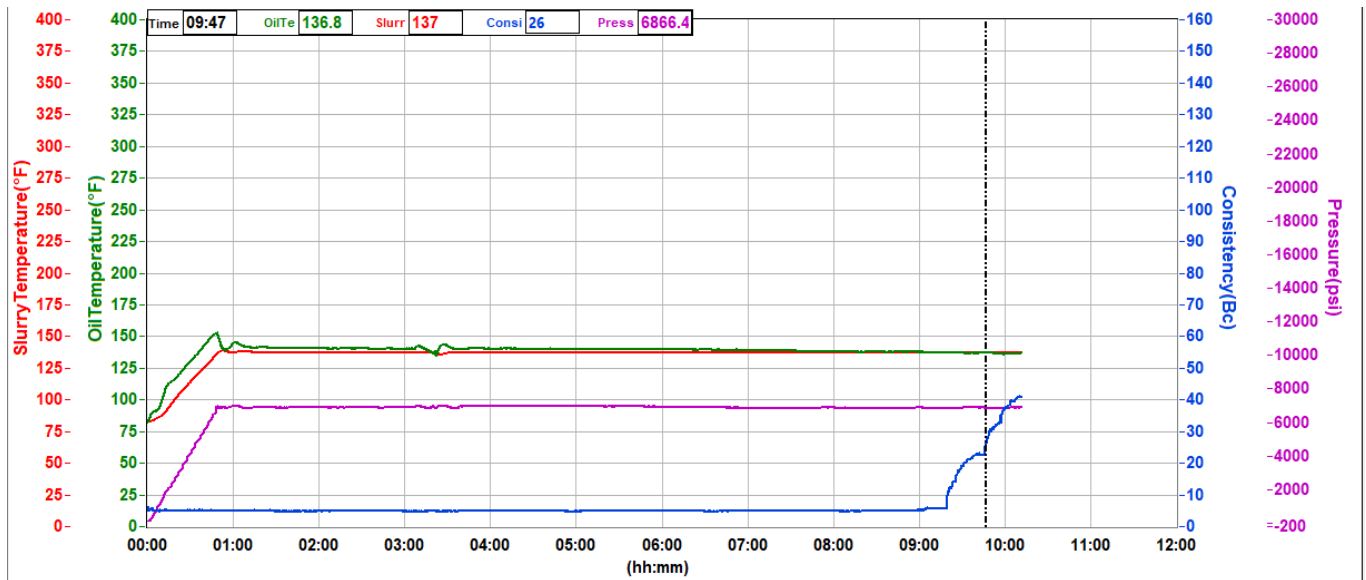
API Fluid Loss

Test Temp (degF)	Test Pressure (psi)	Test Time (min)	Meas. Vol.	Calculated FL (<30 min)	Conditioning time (min)	Conditioning Temp (degF)
131	1000	30	73	401.68	30	131

UCA Comp. Strength

End Temp (degF)	Pressure (psi)	50 psi (hh:mm)	100 psi (hh:mm)	500 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	16 hr CS (psi)	24 hr CS (psi)	End CS (psi)	End Time (hrs)
162	3000	5:52	6:45	23:26	61	127	176	489	507	26

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HALLIBURTON**Permian Basin****Lab Results – 1st Stage Tail****Job Information**

Request/Slurry	2667824/1	Rig Name	Citadel 3	Date	28/FEB/2021
Submitted By	Haley Conces	Job Type	Intermediate Casing	Bulk Plant	
Customer	Ameredev II, LLC	Location	Lea	Well	Independence AGI 1

Well Information

Casing/Liner Size	9.625 in	Depth MD	13200 ft	BHST	172°F
Hole Size	12.25 in	Depth TVD	13200 ft	BHCT	137°F

Cement Information - Primary Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Cement Properties</u>		
100	% BWOC	VersaCem H	Slurry Density	14.5	lbm/gal
5.58	gal/sack	Fresh Water	Slurry Yield	1.23	ft ³ /sack
0.3	% BWOC	HALAD-344 (PB)	Water Requirement	5.58	gal/sack
0.025	% BWOC	SA-1015 (PB)			
0.25	lb/sk	D-Air 5000			
0.325	% BWOC	HR-601			

Pilot Test Results Request ID 2667824/1**Free Fluid API 10B-2** 28/JAN/2021

Con. Temp (degF)	Cond. Time (min)	Static T. (F)	Static time (min)	Incl. (deg)	% Fluid
137	30	80	120	90	0

API Rheology 28/JAN/2021

Temp (degF)	300	200	100	60	30	6	3
80 (avg.)	73	55	35	25	16	6	4

API Rheology 28/JAN/2021

Temp (degF)	300	200	100	60	30	6	3	Cond Time (min)	Cond Temp (degF)
137 (avg.)	64	50	31	22	15	5	3	30	137

API Fluid Loss 28/JAN/2021

Test Temp (degF)	Test Pressure (psi)	Test Time (min)	API FL (cc/30 min)	Meas. Vol.	Conditioning time (min)	Conditioning Temp (degF)
137	1000	30	56	28	30	137

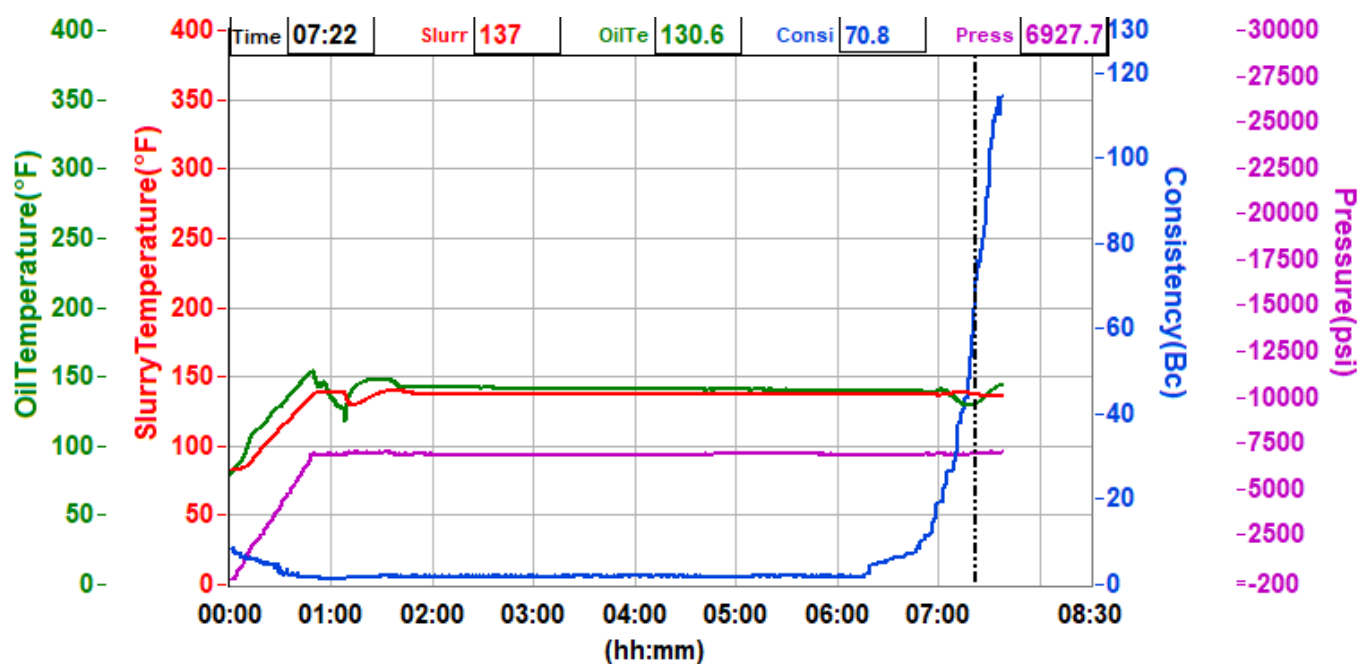
Thickening Time - ON-OFF-ON 29/JAN/2021

Test Temp (degF)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)	Start Bc
137	6900	48	7:22	8

Pilot Test Results Request ID 2653855/2**UCA Comp. Strength** 24/OCT/2020

End Temp (degF)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
168	3000	13:40	17:22	1123	1797	1812	49

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Test Start: 10/22/2020 11:29:45 AM

Test Stop: 10/24/2020 12:19:27 PM

8HR @ 0 psi 12HR @ 0 psi 24HR @ 1123 psi 48HR @ 1797 psi 72HR @ N/A

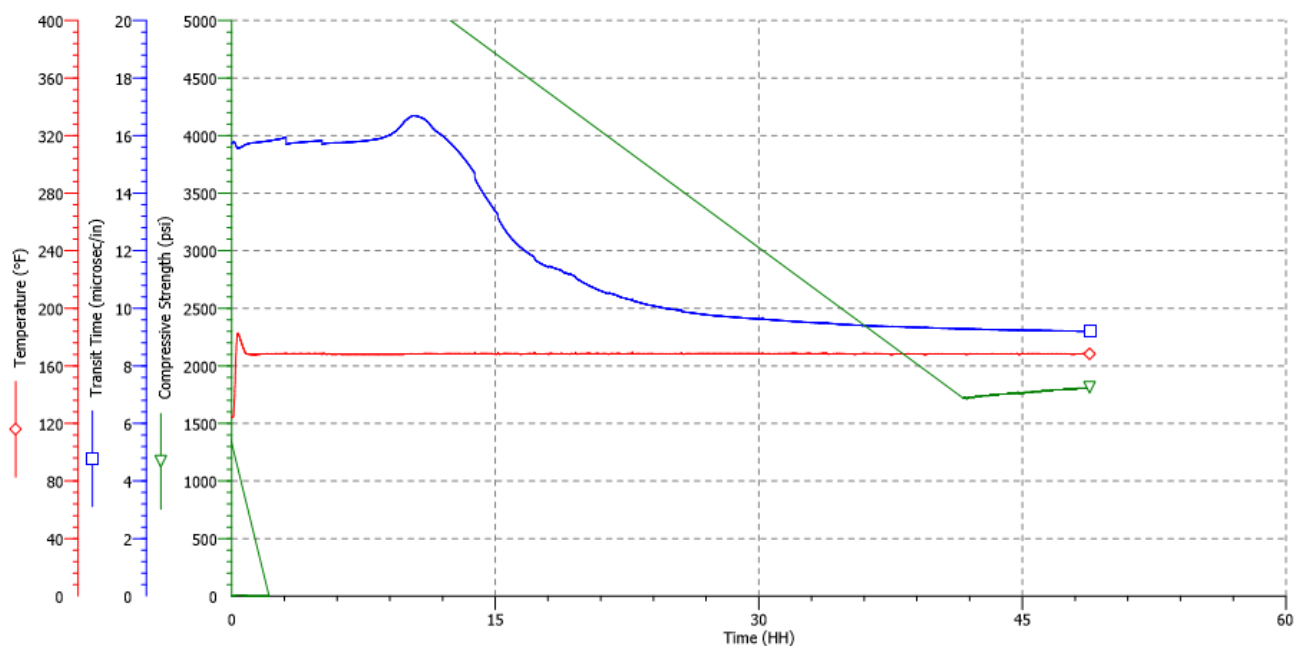
Machine #: UCA #09

Strength: 1812 psi Test Length: 48:49:42

Algorithm: Compressive strength type B (more than 14 lb/gal)

50 psi @ 13:40:00

500 psi @ 17:22:30



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HALLIBURTON

Permian Basin

Lab Results – 2nd Stage Lead

Job Information

Request/Slurry	2672944/1	Rig Name	Citadel 3	Date	28/FEB/2021
Submitted By	Haley Conces	Job Type	Stage collar - fullbore (ES/ESIPC)	Bulk Plant	
Customer	Ameredev II, LLC	Location	Lea	Well	Independence AGI 1

Well Information

Casing/Liner Size	9.625 in	Depth MD	7400 ft	BHST	132°F
Hole Size	12.25 in	Depth TVD	7400 ft	BHCT	99°F

Cement Information - Lead Design

Conc	UOM	Cement/Additive	Cement Properties		
		NeoCem™ Cement	Slurry Density	10.5	lbm/gal
100	% BWOC	Cement Blend	Slurry Yield	2.68	ft ³ /sack
14.25	gal/sack	Fresh Water	Water Requirement	14.25	gal/sack

Pilot Test Results Request ID 2672944/1

Thickening Time - Thixotropic Cup 28/FEB/2021

Temp (degF)	Reached in (min)	Pressure (psi)	Start Bc	26 Bc (hh:mm)	End Time (hh:mm)	End Bc
99	37	3900	15.6	7:45	8:10	32

API Rheology 27/FEB/2021

Temp (degF)	300	200	100	60	30	6	3
80 (avg.)	37	30	21	17	14	10	9

API Rheology 27/FEB/2021

Temp (degF)	300	200	100	60	30	6	3	Cond Time (min)	Cond Temp (degF)
99 (avg.)	511	49	35	28	23	15	14	30	99

API Fluid Loss 27/FEB/2021

Test Temp (degF)	Test Pressure (psi)	Test Time (min)	Meas. Vol.	Calculated FL (<30 min)	Conditioning time (min)	Conditioning Temp (degF)
99	1000	22.53	67	154.45	30	99

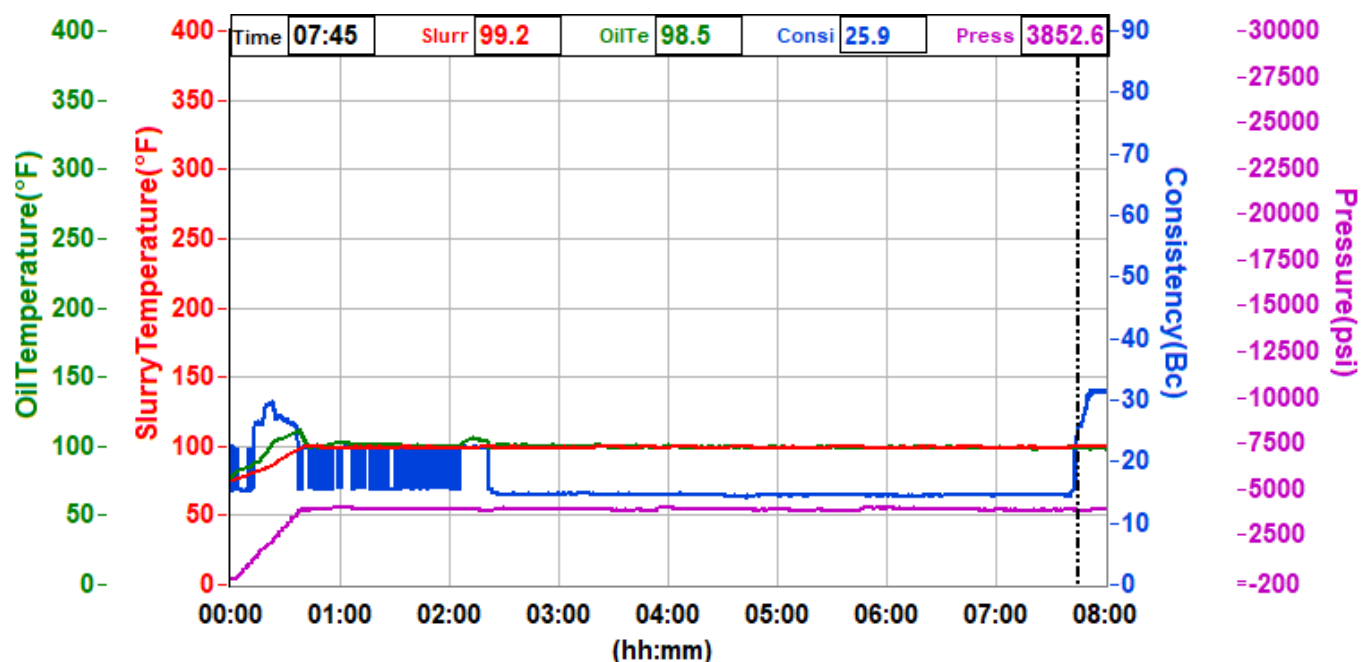
Free Fluid API 10B-2 27/FEB/2021

Con. Temp (degF)	Cond. Time (min)	Static T. (F)	Static time (min)	Incl. (deg)	% Fluid
99	30	80	120	45	0

UCA Comp. Strength 06/FEB/2021

End Temp (degF)	Pressure (psi)	50 psi (hh:mm)	100 psi (hh:mm)	8hr CS (psi)	12 hr CS (psi)	16 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
150	3000	4:35	5:25	345	526	585	619	646	643	48

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Test Start: 2/4/2021 18:22:49

Test Stop: 2/6/2021 19:04:16

8HR @ 345 psi 12HR @ 526 psi 24HR @ 619 psi 48HR @ 646 psi 72HR @ N/A

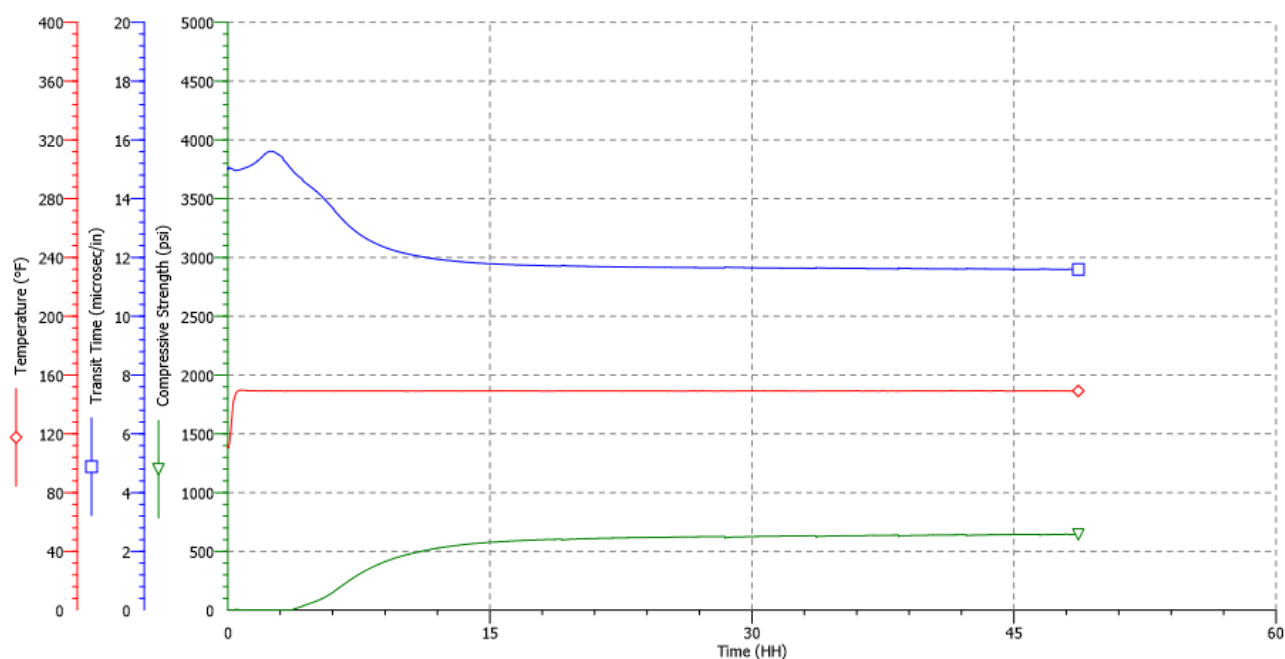
Machine #: UCA 4

Strength: 643 psi Test Length: 48:41:27

Algorithm: Compressive strength type A (less than 14 lb/gal)

50 psi @ 4:35:00

500 psi @ 11:05:00



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HALLIBURTON**Permian Basin****Lab Results – 2nd Stage Tail****Job Information**

Request/Slurry	2667824/1	Rig Name	Citadel 3	Date	28/FEB/2021
Submitted By	Haley Conces	Job Type	Intermediate Casing	Bulk Plant	
Customer	Amerdev II, LLC	Location	Lea	Well	Independence AGI 1

Well Information

Casing/Liner Size	9.625 in	Depth MD	7400 ft	BHST	172°F
Hole Size	12.25 in	Depth TVD	7400 ft	BHCT	137°F

Cement Information - Primary Design

<u>Conc</u>	<u>UOM</u>	<u>Cement/Additive</u>	<u>Cement Properties</u>		
100	% BWOC	VersaCem H	Slurry Density	14.5	lbm/gal
5.58	gal/sack	Fresh Water	Slurry Yield	1.23	ft ³ /sack
0.3	% BWOC	HALAD-344 (PB)	Water Requirement	5.58	gal/sack
0.025	% BWOC	SA-1015 (PB)			
0.25	lb/sk	D-Air 5000			
0.325	% BWOC	HR-601			

Pilot Test Results Request ID 2667824/1**Free Fluid API 10B-2** 28/JAN/2021

Con. Temp (degF)	Cond. Time (min)	Static T. (F)	Static time (min)	Incl. (deg)	% Fluid
137	30	80	120	90	0

API Rheology 28/JAN/2021

Temp (degF)	300	200	100	60	30	6	3
80 (avg.)	73	55	35	25	16	6	4

API Rheology 28/JAN/2021

Temp (degF)	300	200	100	60	30	6	3	Cond Time (min)	Cond Temp (degF)
137 (avg.)	64	50	31	22	15	5	3	30	137

API Fluid Loss 28/JAN/2021

Test Temp (degF)	Test Pressure (psi)	Test Time (min)	API FL (cc/30 min)	Meas. Vol.	Conditioning time (min)	Conditioning Temp (degF)
137	1000	30	56	28	30	137

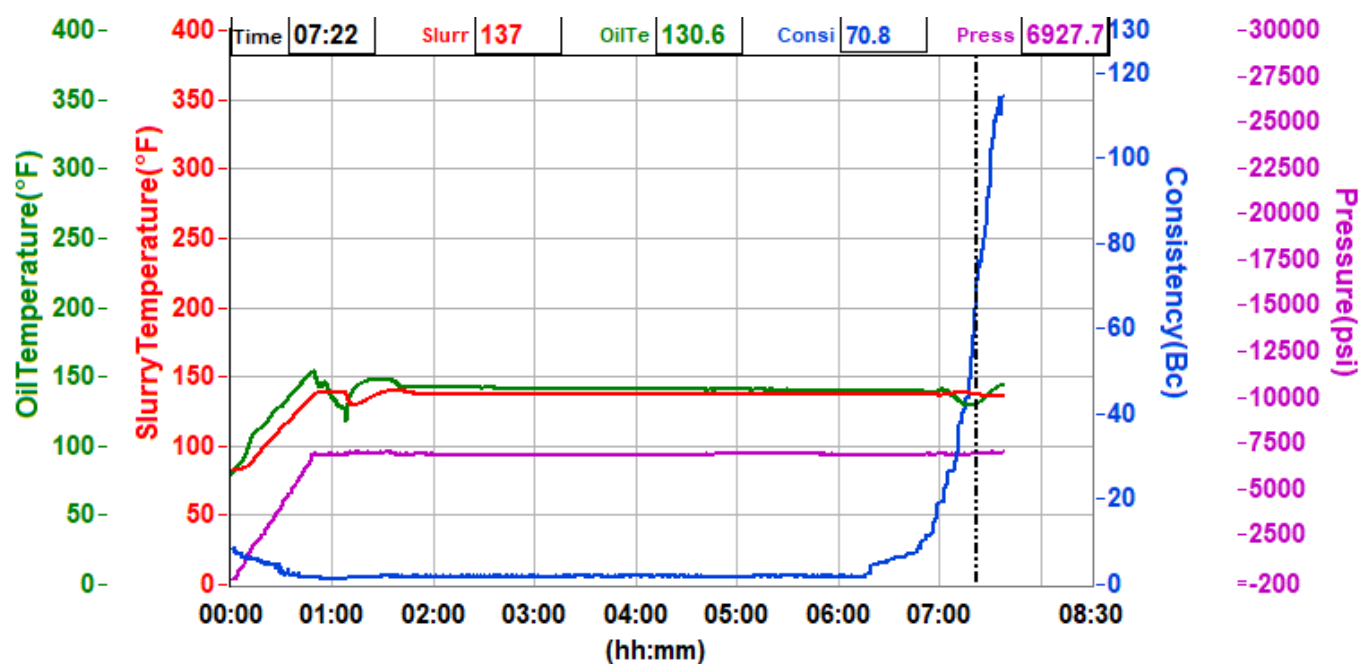
Thickening Time - ON-OFF-ON 29/JAN/2021

Test Temp (degF)	Pressure (psi)	Reached in (min)	70 Bc (hh:mm)	Start Bc
137	6900	48	7:22	8

Pilot Test Results Request ID 2653855/2**UCA Comp. Strength** 24/OCT/2020

End Temp (degF)	Pressure (psi)	50 psi (hh:mm)	500 psi (hh:mm)	24 hr CS (psi)	48 hr CS (psi)	End CS (psi)	End Time (hrs)
168	3000	13:40	17:22	1123	1797	1812	49

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Test Start: 10/22/2020 11:29:45 AM

Test Stop: 10/24/2020 12:19:27 PM

8HR @ 0 psi 12HR @ 0 psi 24HR @ 1123 psi 48HR @ 1797 psi 72HR @ N/A

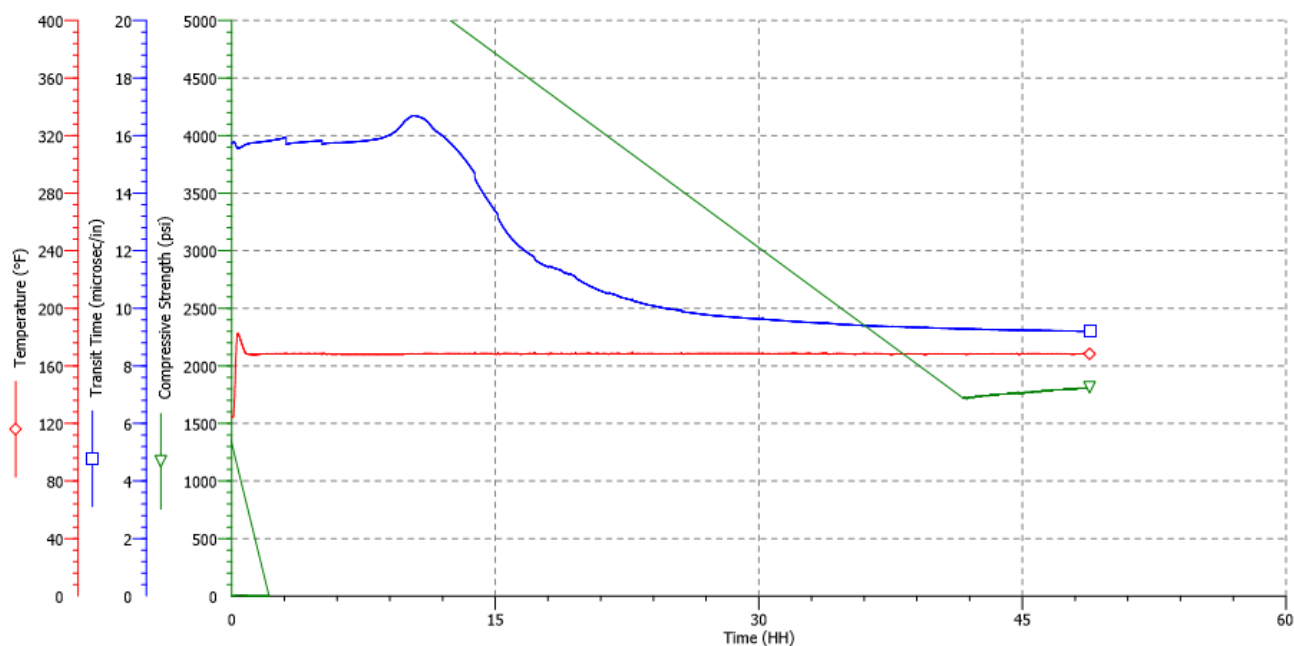
Machine #: UCA #09

Strength: 1812 psi Test Length: 48:49:42

Algorithm: Compressive strength type B (more than 14 lb/gal)

50 psi @ 13:40:00

500 psi @ 17:22:30



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iCem[®] Service

AMEREDEV OPERATING LLC-EBUS

Odessa District, NM

For: AMEREDEV OPERATING

Date: Tuesday, March 02, 2021

INDEPENDENCE AGI 1 3RD INTERMEDIATE

LEA, INDEPENDENCE / 1 / 907004489

Case 1

Job Date: Tuesday, March 02, 2021

Sincerely,
Ryan Wilcoxson

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Customer: AMEREDEV OPERATING LLC-EBUS
Job: MS INTERMEDIATE
Case: Case 1

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Customer: AMEREDEV OPERATING LLC-EBUS

Job: MS INTERMEDIATE

Case: Case 1

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pump A Pressure (psi)	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Cmb Stg Total (bbl)	Comments
Event	1	Call Out	Call Out	3/1/2021	20:00:00	USER					CREWS CALLED TO BE ON LOCATION AT 0200
Event	2	Arrive at Rig	Arrive at Rig	3/1/2021	20:30:00	USER					RIG RUNNING CASING
Event	3	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/1/2021	20:45:00	USER					CREW DISCUSSED HAZARDS INVOLVED WITH RIG UP AND JSA. EMERGENCY PLAN WAS CREATED.
Event	4	Rig-Up Completed	Rig-Up Completed	3/1/2021	22:00:00	USER					
Event	5	Wait on Customer or Customer Sub-Contractor Equipment - End Time	Wait on Customer or Customer Sub-Contractor Equipment - End Time	3/1/2021	22:30:00	USER					RIG RUNNING CASING
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/2/2021	05:00:00	USER					CREW AND CUSTOMER CREW DISCUSSED HAZARDS INVOLVED WITH PRESSURE PUMPING AND JSA. EMERGENCY PLAN WAS CREATED.
Event	7	Start Job	Start Job	3/2/2021	05:11:25	NONE					
Event	8	Test Lines	Test Lines	3/2/2021	05:12:57	NONE	5400	8.33	1		TESTED LINES TO 5400 PSI
Event	9	Pump Spacer 1	Pump Spacer 1	3/2/2021	05:17:22	NONE	452	8.33	6		PUMPED 150 BBLS FRESH WATER AHEAD
Event	10	Pump Spacer 2	Pump Spacer 2	3/2/2021	05:42:44	NONE	625	8.4	6.5		PUMPED 40 BBLS MUD FLUSH W/ BE-9 & ANHIB
Event	11	Pump Lead Cement	Pump Lead Cement	3/2/2021	05:51:36	NONE	818	11.5	8		PUMPED 750 SACKS LEA CMT @ 11.5 PPG

iCem® Service

(v. 5.1.101.0)

HALLIBURTON

Customer: AMEREDEV OPERATING LLC-EBUS

Job: MS INTERMEDIATE

Case: Case 1

Event	12	Pump Tail Cement	Pump Tail Cement	3/2/2021	06:35:25	NONE	633	14.5	6.5	PUMPED 410 SACKS TAIL CMT @ 14.5 PPG
Event	13	Shutdown	Shutdown	3/2/2021	06:53:26	NONE				
Event	14	Drop Plug	Drop Plug	3/2/2021	06:53:29	NONE				DROPPED HES LANDING DART
Event	15	Pump Displacement	Pump Displacement	3/2/2021	06:53:35	NONE	439	9.9	4	PUMPED 963 BBLS WBM DISPLACEMENT. PLEASE NOTE: 40 BBLS FRESH WATER STAGEDVACROSS DV TOOL
Event	16	Bump Plug	Bump Plug	3/2/2021	10:09:13	NONE	1042	9.9	3	BUMPED PLUG 500 PSI OVER. FLOWED BACK 4.5 BBLS
Event	17	Set Packer	Set Packer	3/2/2021	10:13:21	NONE	3689	9.9	2	INFLATED PACKER W/ 1 BBL
Event	18	Drop Ball	Drop Ball	3/2/2021	11:00:11	NONE				DROPPED DV OPENING TOOL
Event	19	Open Multiple Stage Cementer	Open Multiple Stage Cementer	3/2/2021	11:40:34	USER	6.5	9.9	2	OPENED TOOL W/ WBM & CIRCULATED 1 BTM'S UP (430 BBLS) W/ WBM. CIRCULATED 65 BBLS CMT TO SURFACE
Event	20	Other	Other	3/2/2021	13:07:26	NONE				BEGAN STAGE #2
Event	21	Pump Spacer 1	Pump Spacer 1	3/2/2021	13:10:02	NONE	229	8.4	5.5	PUMPED BBLS MUD FLUSH AHEAD W/ ANHIB. BE-9 & RED DYE
Event	22	Pump Lead Cement	Pump Lead Cement	3/2/2021	13:19:46	NONE	500	10.5	8	PUMPED 2440 SACKS LEAD CMT @ 10.5 PPG
Event	23	Pump Tail Cement	Pump Tail Cement	3/2/2021	15:18:00	USER	530	14.8	3	PUMPED 25 SACKS TAIL CMT @ 14.5 PPG
Event	24	Shutdown	Shutdown	3/2/2021	15:23:48	NONE				
Event	25	Drop Plug	Drop Plug	3/2/2021	15:24:42	NONE				DROPPED HES CLOSING PLUG

iCem® Service

(v. 5.1.101.0)

HALLIBURTON

Customer: AMEREDEV OPERATING LLC-EBUS

Job: MS INTERMEDIATE

Case: Case 1

Event	26	Pump Displacement	Pump Displacement	3/2/2021	15:28:22	NONE	550	9.9	8	PUMPED 534 BBLS WBM DISPLACEMENT
Event	27	Bump Plug	Bump Plug	3/2/2021	16:44:54	USER	2250	8.33	5	BUMPED PLUG 1500 PSI. FLOWED BACK 4.5 BBLS. CIRCULATED 484 BBLS CMT TO SURFACE
Event	28	End Job	End Job	3/2/2021	16:55:00	USER				
Event	29	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/2/2021	17:00:00	USER				CREW DISCUSSED HAZARDS INVOLVED WITH RIG DOWN AND JSA. EMERGENCY PLAN WAS CREATED.
Event	30	Rig-Down Completed	Rig-Down Completed	3/2/2021	18:00:00	USER				

HALLIBURTON

Customer: AMEREDEV OPERATING LLC-EBUS

Job: MS INTERMEDIATE

Case: Case 1

2.0 Attachments

2.1 Case 1-Custom Results.png



HALLIBURTON

Customer: AMEREDEV OPERATING LLC-EBUS

Job: MS INTERMEDIATE

Case: Case 1

2.2 Case 1-Custom Results (1).png



HALLIBURTON

Customer: AMEREDEV OPERATING LLC-EBUS

Job: MS INTERMEDIATE

Case: Case 1

Fluid Data									
Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Mud Flush III	Mud Flush III	40	bbl	8.4				
0.20 gal/bbl		ANHIB II (100003821)							
0.05 gal/bbl		BE-9, 5 GAL PAIL (101718548)							
4 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	NeoCem™ PL2	NeoCem TM	750	sack	11.5	2.275		5	13.51
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VersaCem™ H	VERSACEM (TM) SYSTEM	410	sack	14.5	1.226		5	5.57
0.25 lbm		D-AIR 5000, 50 LB SACK (102068797)							
0.40 %		HR-601, 50 LB BAG (101328348)							
0.0250 %		SA-1015, 50 LB SACK (102077046)							
5.57 Gal		FRESH WATER							
0.30 %		HALAD(R)-344, 50 LB (100003670)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement Fluid		963	bbl	8.4				

HALLIBURTON

Customer: AMEREDEV OPERATING LLC-EBUS

Job: MS INTERMEDIATE

Case: Case 1

Cement Left In Pipe	Amount	40 ft	Reason				Shoe Joint		
Fluid Data									
Stage/Plug #: 2									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Mud Flush III	Mud Flush III	40	bbl	8.4				
0.05 gal/bbl		BE-9, 5 GAL PAIL (101718548)							
4 lbm/bbl		MUD FLUSH III, 40 LB SACK (101633304)							
0.20 gal/bbl		ANHIB II (100003821)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	NeoCem™ PL2	NeoCem TM	2240	sack	10.5	2.724		5	14.62
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	VersaCem™ H	VERSACEM (TM) SYSTEM	25	sack	14.5	1.246		5	5.83
0.30 %		HALAD(R)-344, 50 LB (100003670)							
0.40 %		HR-601, 50 LB BAG (101328348)							
0.25 lbm		D-AIR 5000, 50 LB SACK (102068797)							
0.0250 %		SA-1015, 50 LB SACK (102077046)							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement Fluid	Displacement Fluid	534	bbl	8.4				

HALLIBURTON

Customer: AMEREDEV OPERATING LLC-EBUS

Job: MS INTERMEDIATE

Case: Case 1

Cement Left In Pipe	Amount	40 ft	Reason	Shoe Joint
Mix Water:	pH ##	Mix Water Chloride: ## ppm	Mix Water Temperature: ## °F °C	
Cement Temperature: ## °F °C		Plug Displaced by: ## lb/gal kg/m3 XXXX	Disp. Temperature: ## °F °C	
Plug Bumped?	Yes/No	Bump Pressure: #### psi MPa	Floats Held? Yes/No	
Cement Returns: ## bbl m3		Returns Density: ## lb/gal kg/m3	Returns Temperature: ## °F °C	
Comment				



BOP TEST FORM

COMPANY Auerador DATE 03-03-21
 LEASE Independence 161 1H STATE NM COUNTY Lea
 DRILLING CONTRACTOR Citadel 3 TESTER Orlando Hernandez

TESTING DETAILS

Test Pressures

BOP 250-5K Annular 250-3500 Casing 1000 Pumps 250-5K Manifold 250-5K

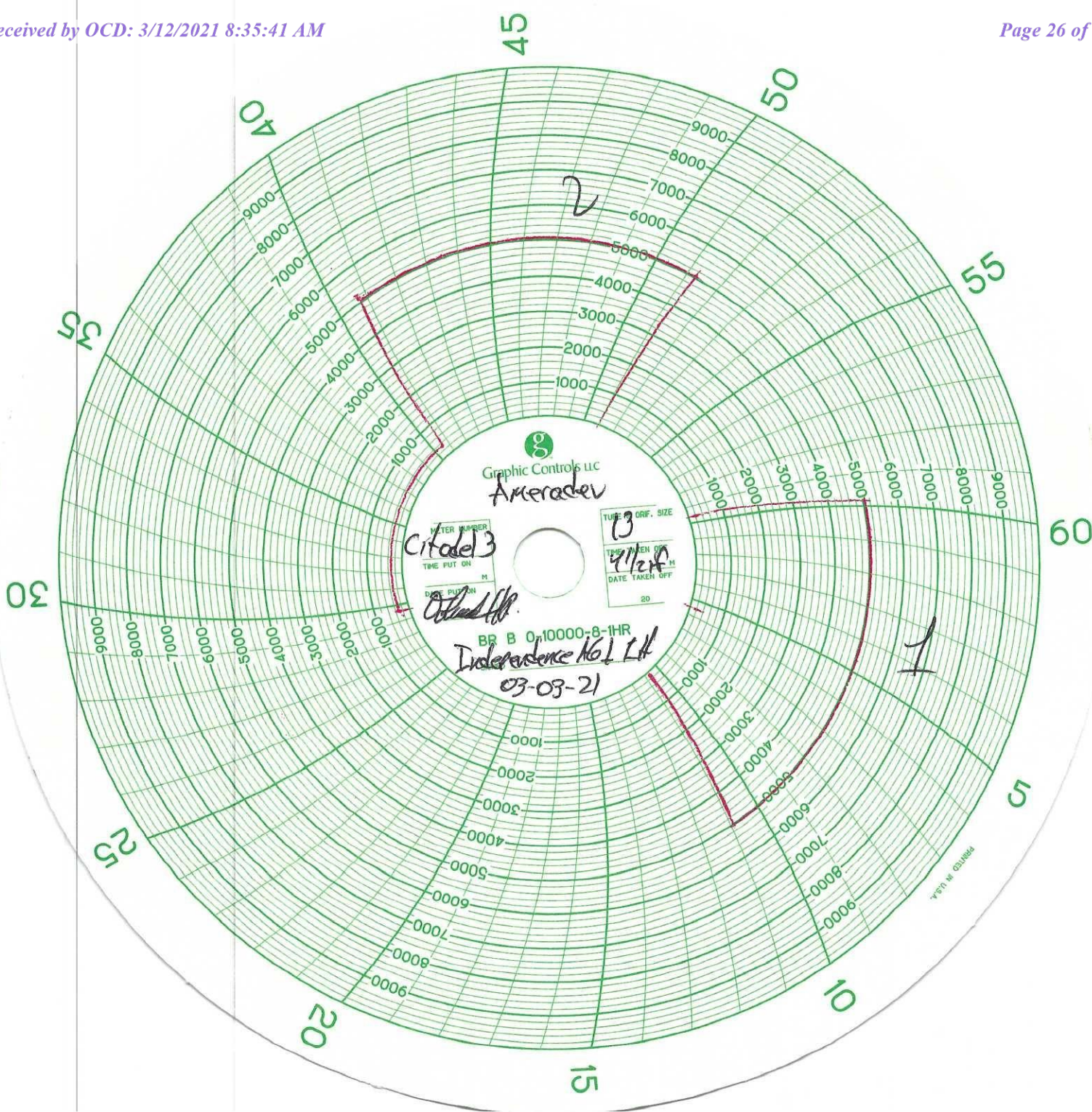
Test Equipment

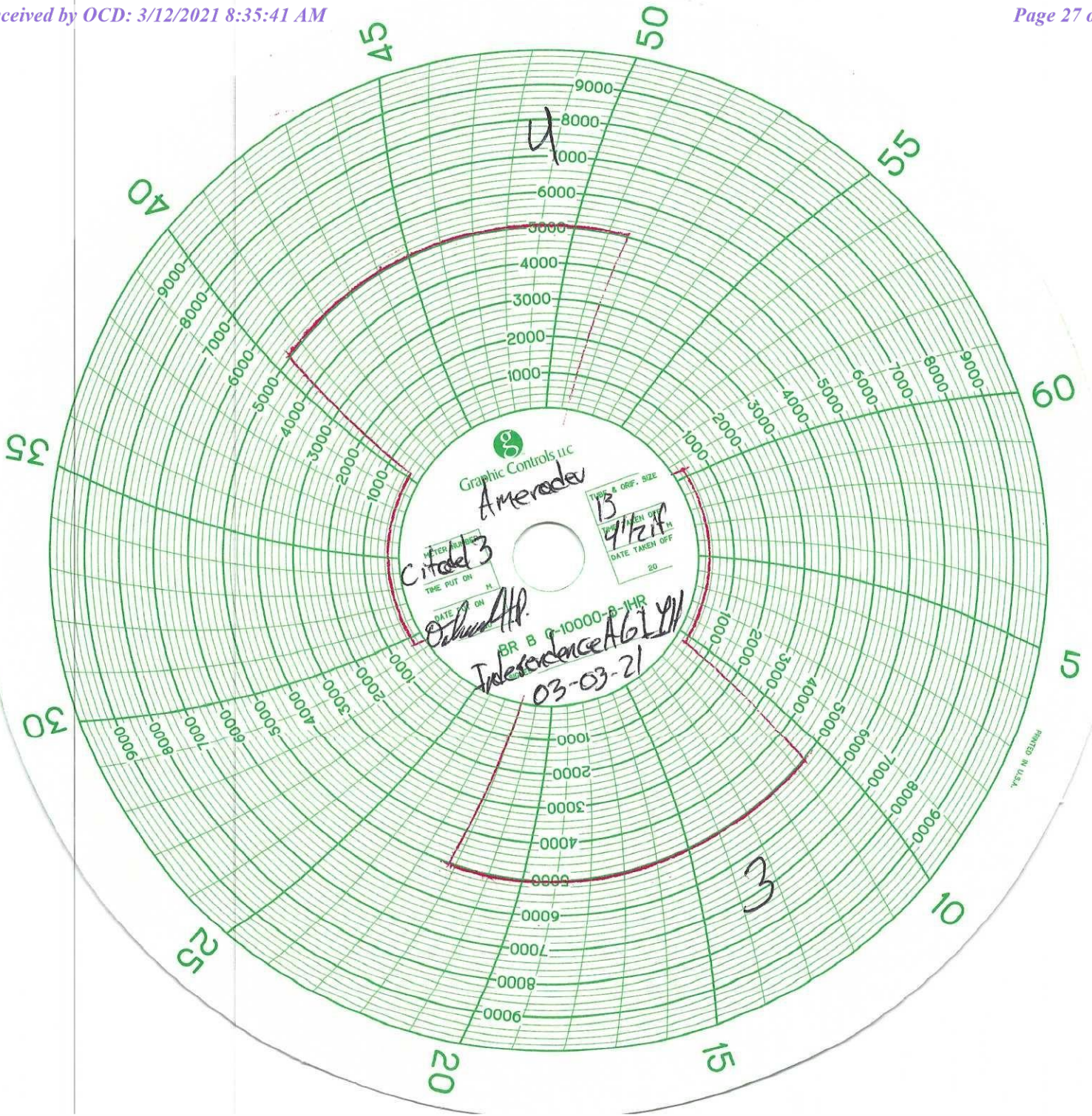
Test Plug 13 Drill Pipe Size 4 1/2" Crossovers N-1

TEST #	ITEMS TESTED	LOW TEST		HIGH TEST		REMARKS
		PSI	MIN.	PSI	MIN.	
1	Truck			SK	10	
2	3, 4, 5, 8 back side	250	10	SK	10	
3	1, 2, 6, 8"	250	10	SK	10	
4	25, 26, 6, 8"	250	10	SK	10	
5	14	250	10	SK	10	
6	12, 10, 8b	250	10	SK	10	
7	12, 9, 8	250	10	SK	10	
8	12, 11, 7	250	10	SK	10	
9	15, 11, 7	250	10	3500	10	
10	16	250	10	SK	10	
11	17	250	10	SK	10	
12	24	250	10	SK	10	
13	23, 27, 21, 20	250	10	SK	10	
14	18	250	10	SK	10	
15	19	250	10	SK	10	
16	Kill line	250	10	SK	10	
17	10, 25a, 26a, 6, 8BS	250	10	SK	10	
18	MPD Lines	250	10	2K	10	
19	Casing	25		1K	30	

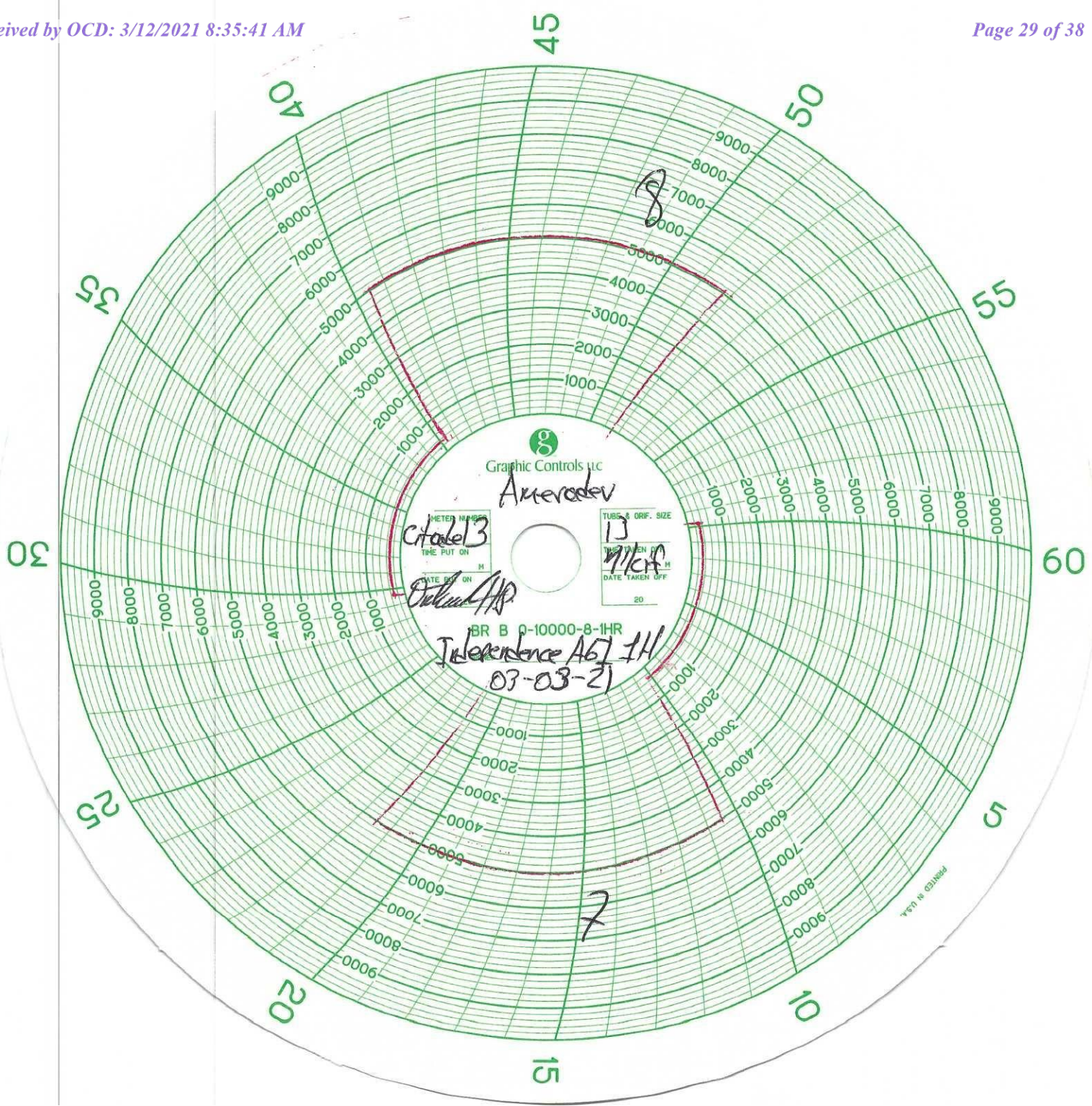
TEST ACCEPTED BY

PO BOX 7 • LOVINGTON, NM 88260 • 575.942.9472 • battleenergy@gmail.com

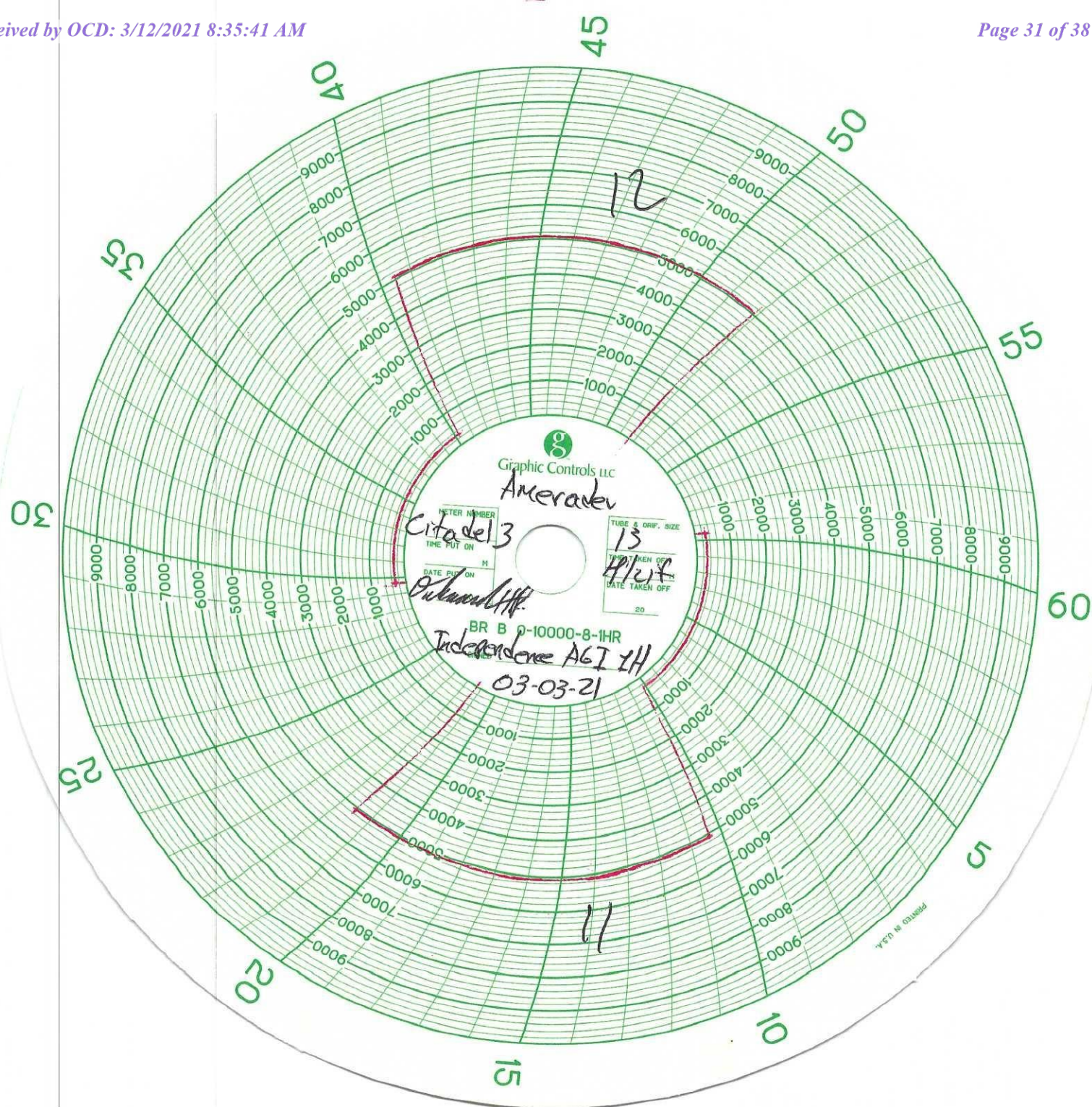


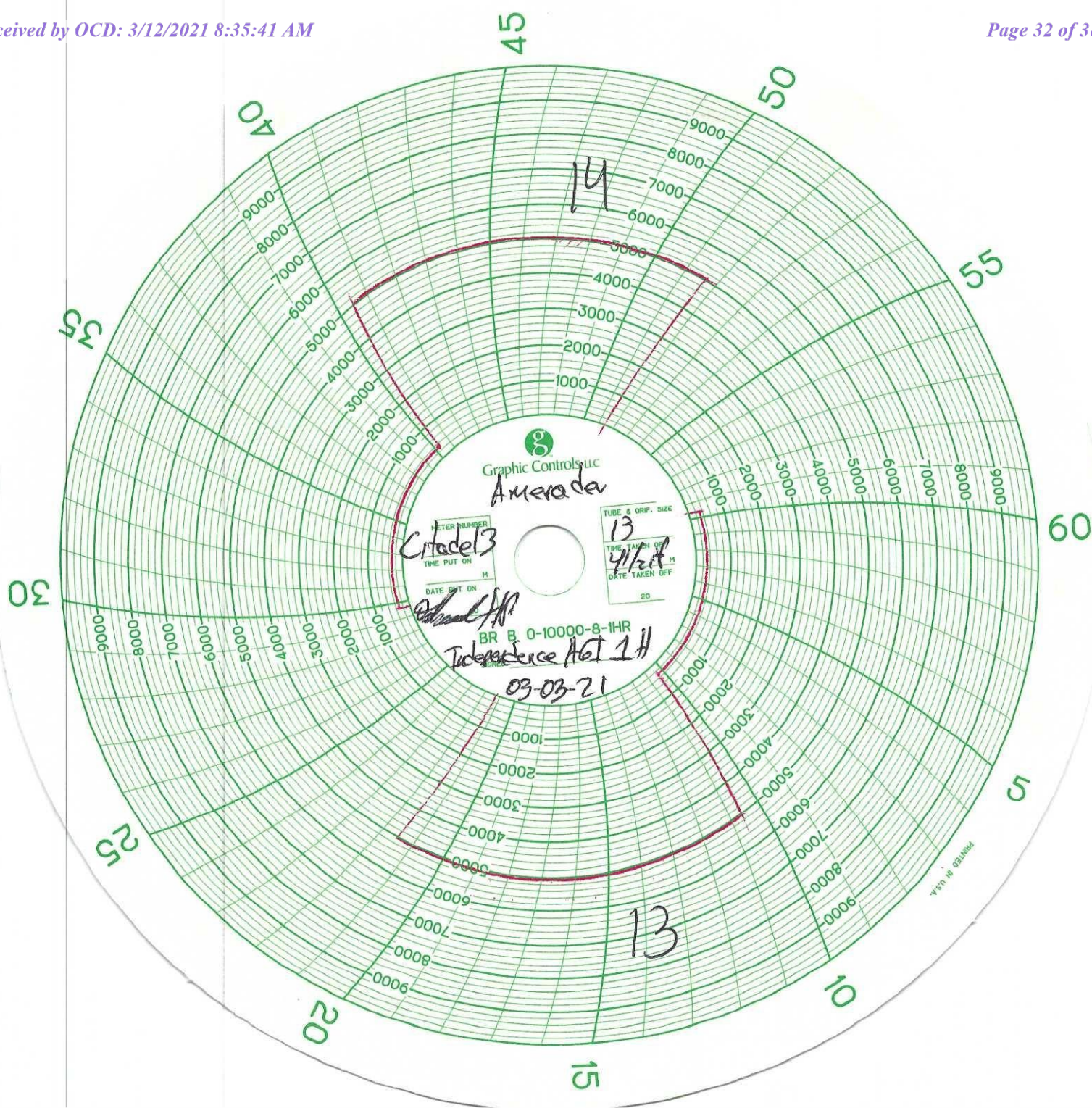


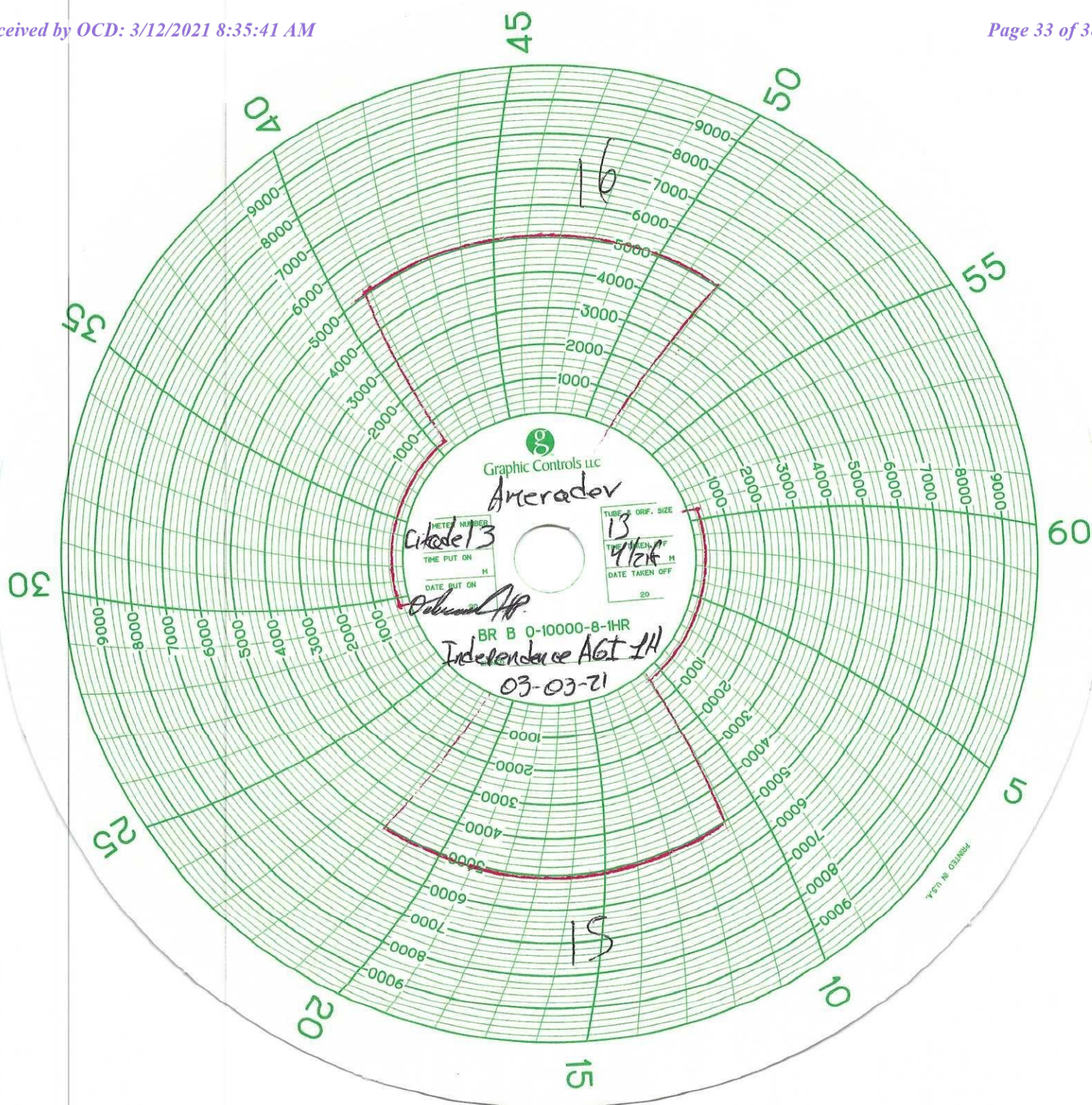


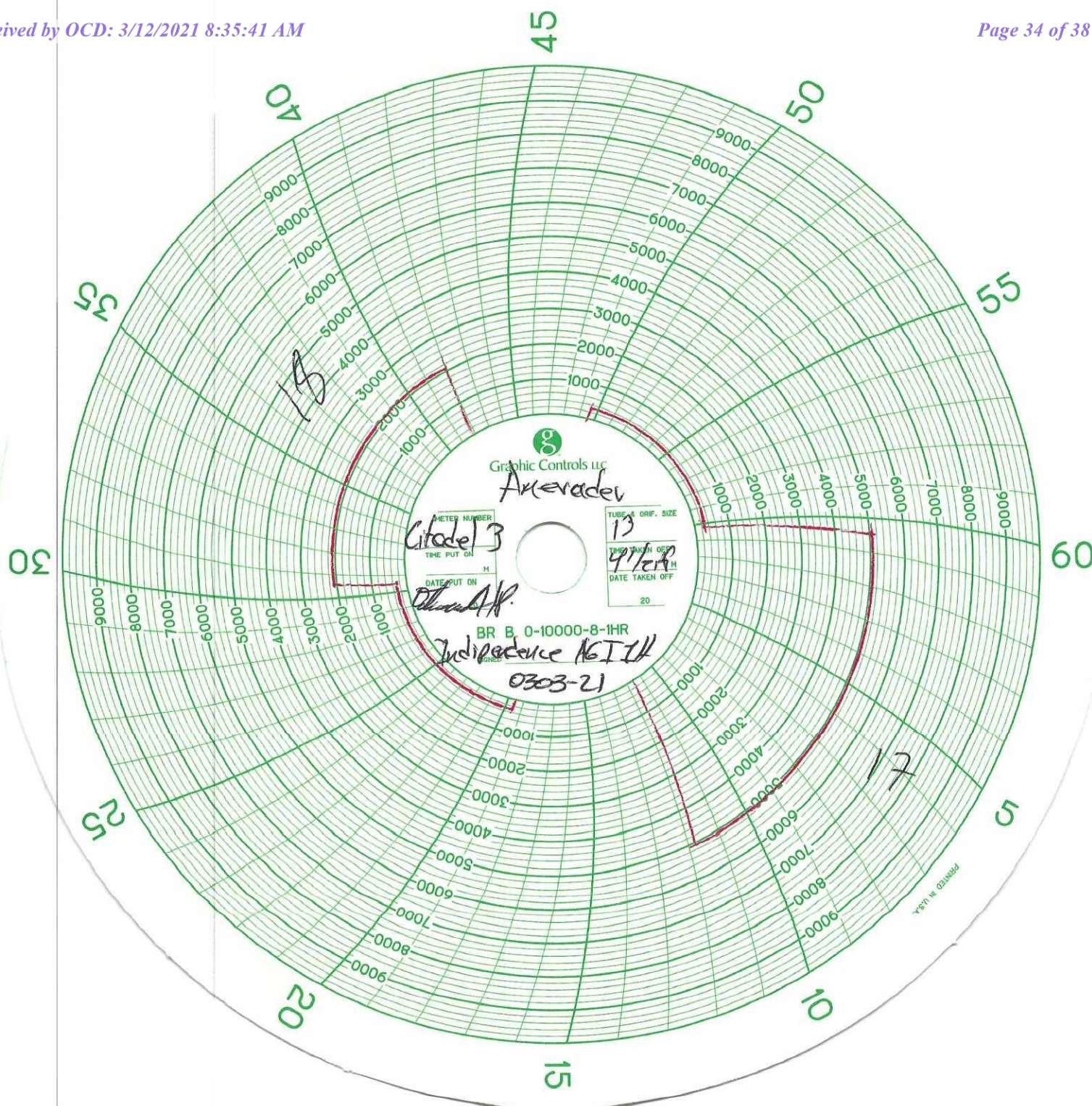


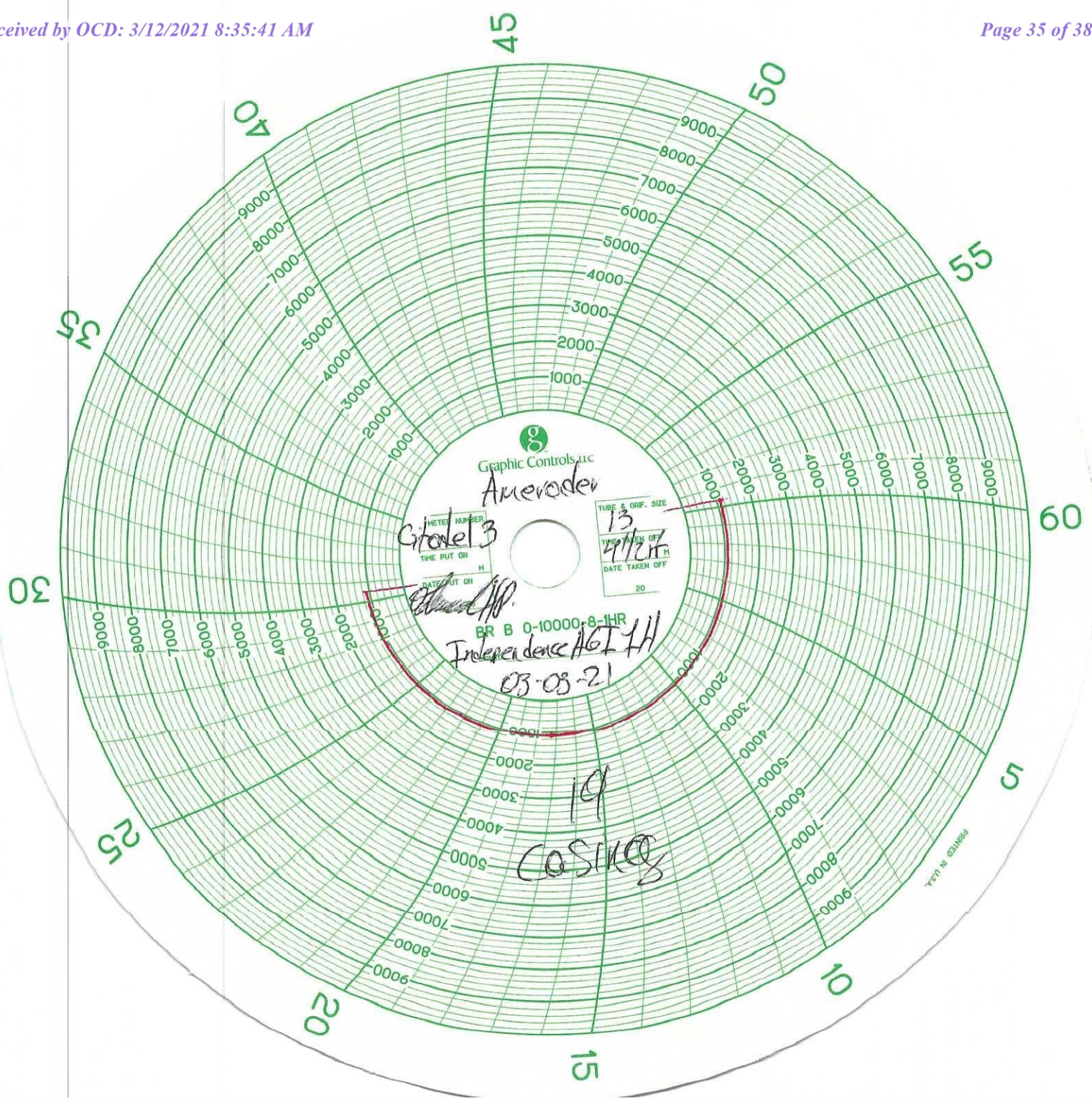




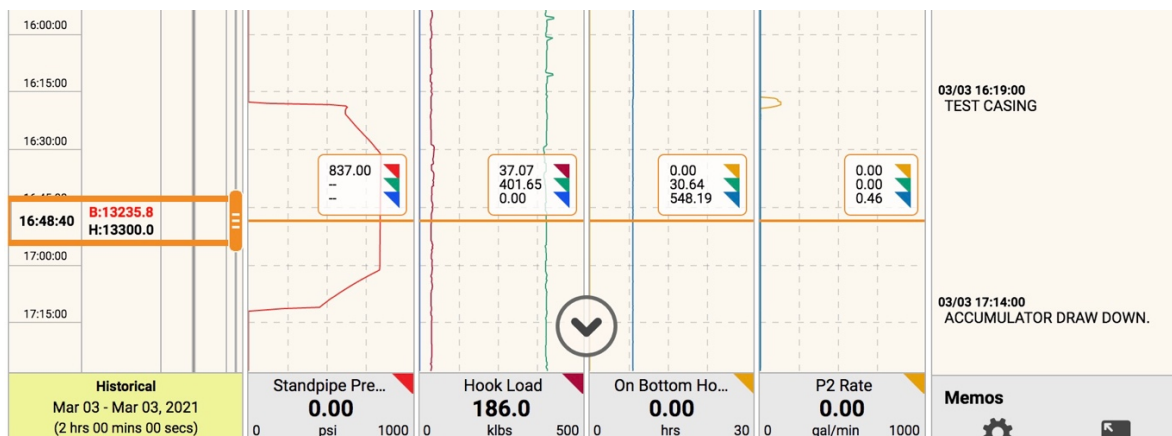




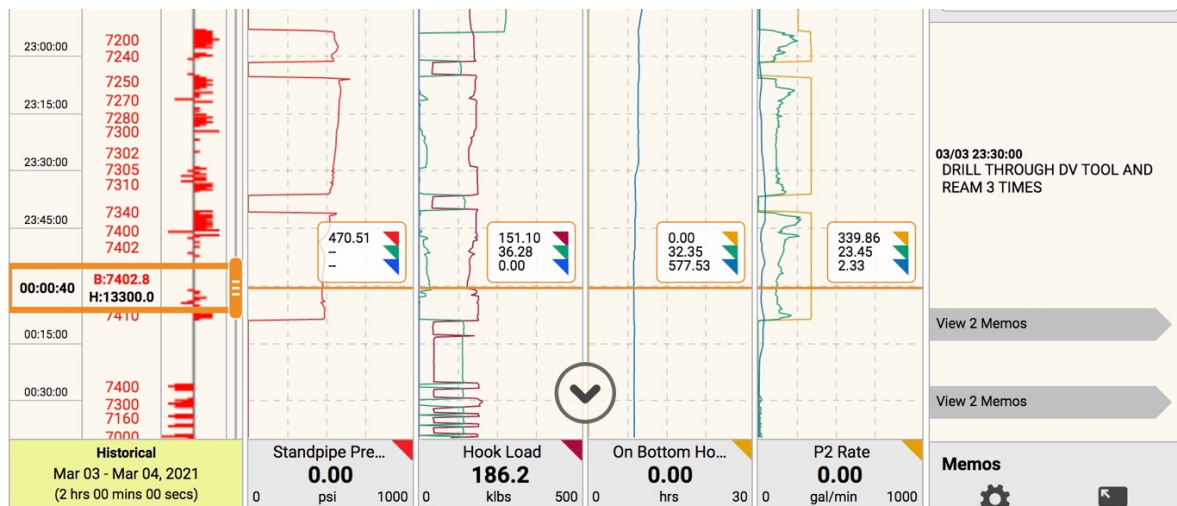




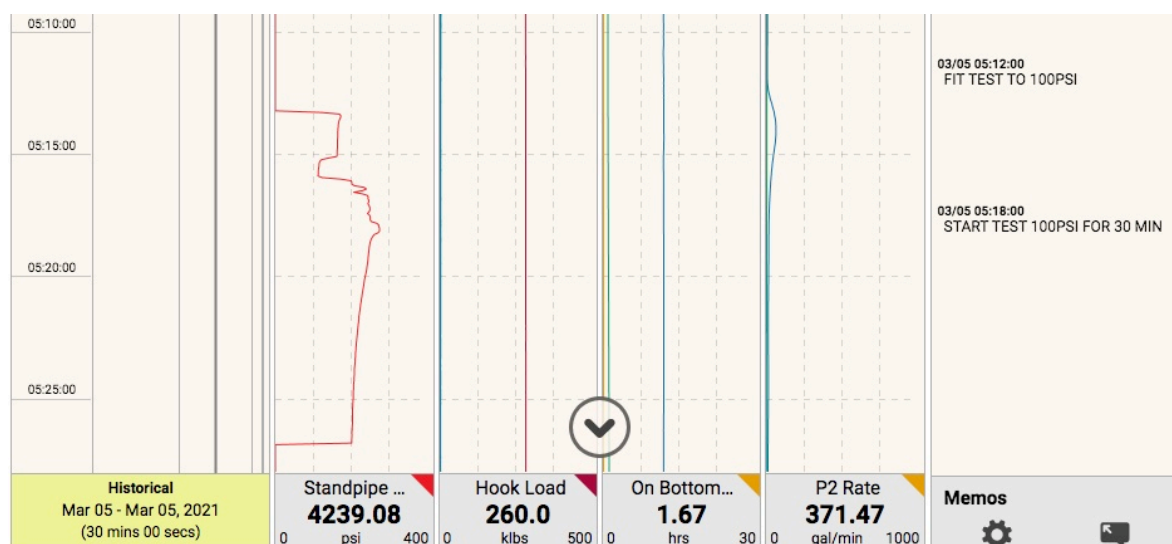
Casing Test and FIT following the installation of the 3rd Intermediate Casing (9 5/8-inch)



Casing Test: Prior to drilling out the DV Tool (also included with BOP test charts)



Casing Test: Following the drill-out of the DV Tool

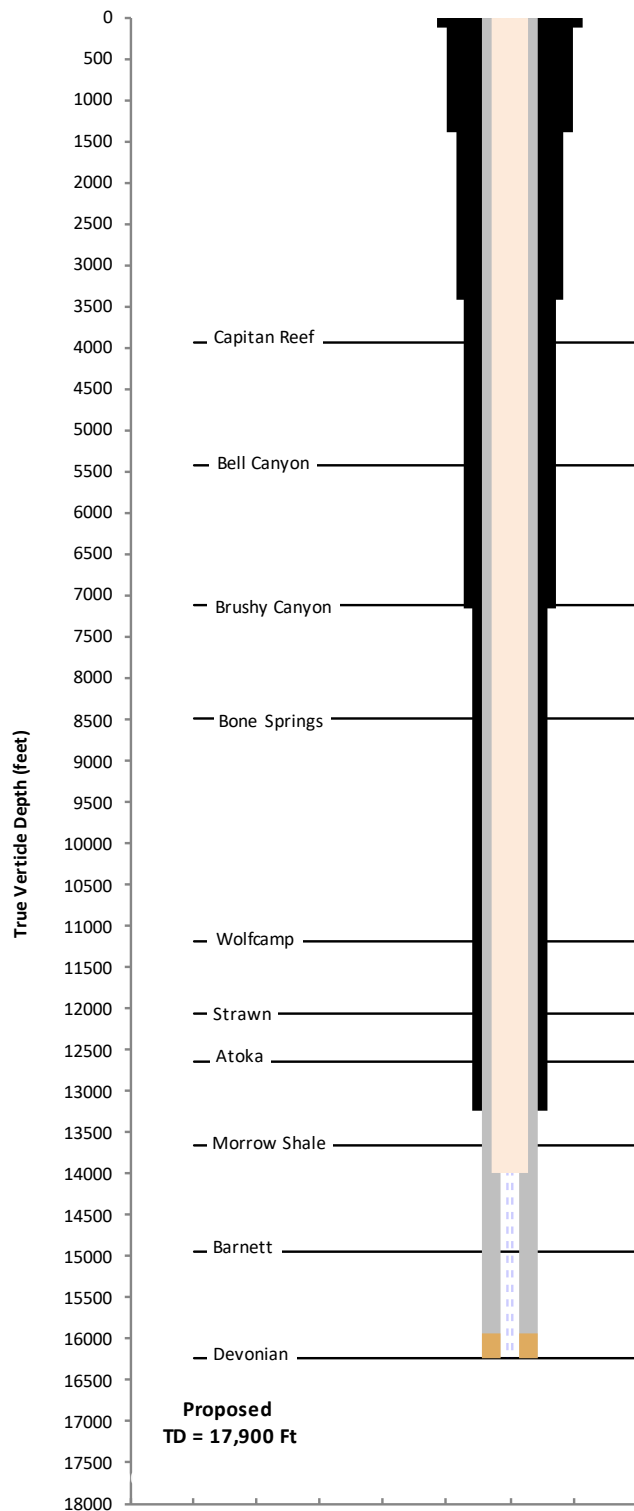


Formation Integrity Test: Following the drilling of 10 feet of formation below casing shoe

Well Name: Ameredev Independence AGI #1 (API: 30-025-48081)

Surface Location: Section 20, T-25-S, R-36-E, Lea Co., New Mexico
(829' FNL & 1443' FWL) - GL: 3,103' (KB: 24.5')

GEOLEX[®]
INCORPORATED

**CONDUCTOR CASING:**

36", 125.72 lb/ft, at 116 ft, cement to surface

SURFACE CASING:

24-inch, X65, 186 lb/ft, XLF casing at 0-1,383 ft in 26-in hole (35 jts) , cmt to surf (129 sx)

1ST INTERMEDIATE CASING:

20-inch, NT-80DE, 133 lb/ft, BTC casing at 0-3,412 ft in 22-in hole, did not circ. cmt. to surf.
An additional 30 bbls of cement was placed with 3/4-inch spear, circulated to surface (29 sx)

DV/ECP in 13 5/8-in casing at 3,819 to 3,839 ft

DV/ECP in 13 5/8-in casing at 5,350 to 5,370 ft

2ND INTERMEDIATE CASING:

13 5/8-inch, Q-125, 88.2 lb/ft, BTC casing at 0-7,150 ft in 17 1/2-in hole,
Cement to surface: Stage 1 = 135 sx, Stage 2 = 132 sx, Stage 3 = 207 sx

DV/PKR in 9 5/8-in casing at 7,289 to 7,306 ft

3RD INTERMEDIATE CASING:

9 5/8-inch, P110 & L80, 47 lb/ft, BTC casing at 0-13,233 ft in 12 1/4-in hole,
Cement to surface: Stage 1 = 162 sx, Stage 2 = 1,015 sx

CURRENT DEPTH = 13,987 Feet with 8 1/2-inch bit.

PRODUCTION CASING:

7-inch, VA HC P110, 32 lb/ft, VARN, casing at 0-15,930 ft in 8 1/2-in hole, cmt to surf (297 sx)
7-inch, G3-110 CRA, 32 lb/ft, VAM TOPHC, casing at 15,930-16230 ft in 8 1/2-in hole

Proposed TD Location: Section 20, T-25-S, R-36-E, Lea Co., New Mexico
(829' FNL & 1443' FWL)

AMEREDEV

Independence AGI #1

Plate 1

Wellbore Completion Schematic

March 8, 2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 20629

CONDITIONS OF APPROVAL

Operator:	AMEREDEV OPERATING, LLC	2901 Via Fortuna	OGRID:	372224	Action Number:	20629	Action Type:	C-103N
	Suite 600	Austin, TX78746						
OCD Reviewer				Condition				
ksimmons				None				