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 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

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.)		WELL API NO. 30-025-48081
1. Type of Well: Oil Well ☐ Gas Well ☐ Other: Acid Gas Injection Well ☒		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Ameredev Operating, LLC		6. State Oil & Gas Lease No.
3. Address of Operator 2901 Via Fortuna, Ste. 600, Austin, TX 78746		7. Lease Name or Unit Agreement Name Independence AGI
4. Well Location Unit Letter <u>C</u> : <u>829</u> feet from the NORTH line and <u>1,443</u> feet from the EAST line Section <u>20</u> Township <u>25S</u> Range <u>36E</u> NMPM County <u>Lea</u>		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3,103 (GR)		9. OGRID Number 372224
		10. Pool name or Wildcat AGI: Devonian/Fusselman

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☒	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
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 8 1/2-inch borehole was drilled to 16,135 feet from March 5 to April 15, 2021, but the 7-inch Production Casing was not installed until May 4, 2021 due to stuck drill pipe issues, one of which resulted in a side-track as documented in a C-103 submitted on April 1, 2021. The casing float shoe was set at 16,129 feet and cemented in two stages as indicated below. Cement densities range from 13.2 to 15.3 lbs/gal and cement was circulated to the surface following each stage with 788 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. The CBL will be submitted via NMOCD EDocs site.

Casing	Joints	Size	Wt. (lb/ft)	Grade	Threads	Set Depth	Cement	Type/Class	Sacks	Yield
Production	385	7.0"	32.0	HCP110	VARN	0 – 15,825	Stage 1 Lead	NeoCem	715	1.44
	9 + 2 XO	7.0"	32.0	G-3110 CRA	VAM TOPHC	15,825 – 16,125	Stage 1 Tail	LockCem	185	1.28
ECP #1: 13,512' & DVT #1: 13,508'							Stage 2 Lead	NeoCem	2,185	1.44

Upon completing the CBL, the BOPE for the open hole section was installed and successfully tested. The casing was tested prior to drill-out operations, 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 May 17, 2021

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

For State Use Only

APPROVED BY: Philip R. Lutz TITLE UIC Manager DATE 05/27/2021

Conditions of Approval (if any):

		Date: 05.06.2021		Hole TD: 16135		Casing Set @: 16129							
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 ft bbls	Disp per ft bbls	Running Capacity bbls	Running CL Disp bbls	Strokes to fill	Running Ann Vol bbls	Running OP Disp bbls	Comments
	RS	2.75	2.75	16126.25	16129.00	0.43	0.07	0.43	0.48	4.65	0.34	0.07	Reamer shoe
	XO	27.02	29.77	16099.23	16126.25	4.18	0.65	4.60	5.17	50.35	3.68	0.72	X/O
1		28.70	58.47	16070.53	16099.23	4.44	0.69	9.04	10.16	98.90	7.23	1.41	CRA
2		28.25	86.72	16042.28	16070.53	4.37	0.68	13.41	15.07	146.68	10.73	2.09	CRA
3		28.62	115.34	16013.66	16042.28	4.42	0.69	17.83	20.04	195.09	14.27	2.77	CRA
4		28.53	143.87	15985.13	16013.66	4.41	0.69	22.24	25.00	243.34	17.80	3.46	CRA
5		26.39	170.26	15958.74	15985.13	4.08	0.63	26.32	29.59	287.98	21.06	4.09	CRA
6		26.53	196.85	15932.15	15958.74	4.11	0.64	30.43	34.21	332.95	24.35	4.73	CRA
7		26.89	223.74	15905.26	15932.15	4.16	0.65	34.59	38.88	378.43	27.68	5.38	CRA
8		28.78	252.52	15876.48	15905.26	4.45	0.69	39.04	43.88	427.11	31.24	6.07	CRA
9		26.27	278.79	15850.21	15876.48	4.06	0.63	43.10	48.45	471.54	34.49	6.71	CRA
XO		25.35	304.14	15824.86	15850.21	3.92	0.61	47.02	52.85	514.42	37.63	7.31	X/O
FC		2.25	306.39	15822.61	15824.86	0.35	0.05	47.37	53.24	518.23	37.91	7.37	Float Collar
10		41.32	347.71	15781.29	15822.61	6.39	0.99	53.75	60.43	588.11	43.02	8.36	Bow Spring Centralizers 1 & 2
11		41.02	388.73	15740.27	15781.29	6.34	0.99	60.10	67.55	657.49	48.09	9.35	
12		41.11	429.84	15699.16	15740.27	6.36	0.99	66.45	74.70	727.03	53.18	10.34	
13		41.12	470.96	15658.04	15699.16	6.36	0.99	72.81	81.84	796.58	58.27	11.33	Bow Spring Centralizer
14		40.56	511.52	15617.48	15658.04	6.27	0.98	79.08	88.89	865.18	63.29	12.30	
15		40.99	552.51	15576.49	15617.48	6.34	0.99	85.41	96.02	934.51	68.36	13.29	
16		40.85	593.36	15535.64	15576.49	6.32	0.98	91.73	103.11	1003.60	73.41	14.27	Bow Spring Centralizers
17		41.10	634.46	15494.54	15535.64	6.35	0.99	98.08	110.26	1073.12	78.50	15.26	
18		41.15	675.61	15453.39	15494.54	6.36	0.99	104.44	117.41	1142.72	83.59	16.25	
19		40.08	715.69	15413.31	15453.39	6.20	0.96	110.64	124.37	1210.51	88.55	17.21	Bow Spring Centralizer
20		38.22	753.91	15375.09	15413.31	5.91	0.92	116.55	131.02	1275.16	93.28	18.13	
21		41.39	795.30	15333.70	15375.09	6.40	1.00	122.95	138.21	1345.16	98.40	19.13	
22		41.41	836.71	15292.29	15333.70	6.40	1.00	129.35	145.40	1415.20	103.52	20.12	Bow Spring Centralizer
23		41.19	877.90	15251.10	15292.29	6.37	0.99	135.72	152.56	1484.87	108.62	21.11	
24		41.19	919.09	15209.91	15251.10	6.37	0.99	142.09	159.72	1554.54	113.71	22.11	
25		41.04	960.13	15168.87	15209.91	6.34	0.99	148.43	166.85	1623.96	118.79	23.09	Bow Spring Centralizer
26		40.95	1001.08	15127.92	15168.87	6.33	0.98	154.76	173.97	1693.22	123.86	24.08	
27		40.98	1042.06	15086.94	15127.92	6.34	0.99	161.10	181.09	1762.53	128.93	25.06	
28		41.28	1083.34	15045.66	15086.94	6.38	0.99	167.48	188.26	1832.35	134.03	26.06	Bow Spring Centralizer
29		41.34	1124.68	15004.32	15045.66	6.39	0.99	173.87	195.45	1902.27	139.15	27.05	
30		41.41	1166.09	14962.91	15004.32	6.40	1.00	180.27	202.64	1972.31	144.27	28.05	
31		40.25	1206.34	14922.66	14962.91	6.22	0.97	186.49	209.64	2040.39	149.25	29.01	Bow Spring Centralizer
32		41.03	1247.37	14881.63	14922.66	6.34	0.99	192.83	216.77	2109.79	154.33	30.00	
33		41.30	1288.67	14840.33	14881.63	6.38	0.99	199.22	223.95	2179.65	159.44	30.99	
34		41.02	1329.69	14799.31	14840.33	6.34	0.99	205.56	231.08	2249.03	164.51	31.98	Bow Spring Centralizer
35		40.98	1370.67	14758.33	14799.31	6.34	0.99	211.90	238.20	2318.34	169.58	32.97	
36		41.13	1411.80	14717.20	14758.33	6.36	0.99	218.25	245.34	2387.91	174.67	33.96	
37		41.30	1453.10	14675.90	14717.20	6.38	0.99	224.64	252.52	2457.76	179.78	34.95	Bow Spring Centralizer
38		41.32	1494.42	14634.58	14675.90	6.39	0.99	231.03	259.70	2527.65	184.89	35.94	
39		41.21	1535.63	14593.37	14634.58	6.37	0.99	237.40	266.86	2597.35	189.99	36.93	
40		41.22	1576.85	14552.15	14593.37	6.37	0.99	243.77	274.03	2667.07	195.09	37.93	Bow Spring Centralizer
41		41.37	1618.22	14510.78	14552.15	6.40	1.00	250.17	281.22	2737.04	200.21	38.92	
42		39.94	1658.16	14470.84	14510.78	6.17	0.96	256.34	288.16	2804.60	205.15	39.88	
43		41.00	1699.16	14429.84	14470.84	6.34	0.99	262.68	295.28	2873.94	210.22	40.87	Bow Spring Centralizer
44		41.18	1740.34	14388.66	14429.84	6.37	0.99	269.04	302.44	2943.60	215.32	41.86	
45		40.88	1781.22	14347.78	14388.66	6.32	0.98	275.36	309.54	3012.74	220.38	42.84	
46		41.16	1822.38	14306.62	14347.78	6.36	0.99	281.73	316.70	3082.36	225.47	43.83	Bow Spring Centralizer
47		41.37	1863.75	14265.25	14306.62	6.40	1.00	288.12	323.89	3152.33	230.59	44.83	
48		40.92	1904.67	14224.33	14265.25	6.33	0.98	294.45	331.00	3221.54	235.65	45.81	
49		40.75	1945.42	14183.58	14224.33	6.30	0.98	300.75	338.08	3290.47	240.69	46.79	Bow Spring Centralizer
50		40.72	1986.14	14142.86	14183.58	6.30	0.98	307.04	345.15	3359.34	245.73	47.77	
51		41.39	2027.53	14101.47	14142.86	6.40	1.00	313.44	352.35	3429.35	250.85	48.76	
52		39.86	2067.39	14061.61	14101.47	6.16	0.96	319.60	359.27	3496.77	255.78	49.72	Bow Spring Centralizer
53		41.16	2108.55	14020.45	14061.61	6.36	0.99	325.97	366.43	3566.38	260.87	50.71	
54		41.28	2149.83	13979.17	14020.45	6.38	0.99	332.35	373.60	3636.20	265.98	51.71	
55		40.88	2190.71	13938.29	13979.17	6.32	0.98	338.67	380.70	3705.35	271.04	52.69	Bow Spring Centralizer
56		40.70	2231.41	13897.59	13938.29	6.29	0.98	344.96	387.78	3774.19	276.07	53.67	
57		41.27	2272.68	13856.32	13897.59	6.38	0.99	351.34	394.95	3843.99	281.18	54.66	
58		41.19	2313.87	13815.13	13856.32	6.37	0.99	357.71	402.11	3913.66	286.28	55.65	Bow Spring Centralizer
59		40.98	2354.85	13774.15	13815.13	6.34	0.99	364.04	409.23	3982.97	291.35	56.64	
60		41.27	2396.12	13732.88	13774.15	6.38	0.99	370.42	416.40	4052.78	296.45	57.63	
61		41.07	2437.19	13691.81	13732.88	6.35	0.99	376.77	423.54	4122.24	301.53	58.62	Bow Spring Centralizer
62		40.82	2478.01	13650.99	13691.81	6.31	0.98	383.08	430.63	4191.29	306.58	59.60	
63		40.64	2518.65	13610.35	13650.99	6.28	0.98	389.37	437.69	4260.02	311.61	60.58	
64		41.22	2559.87	13569.13	13610.35	6.37	0.99	395.74	444.86	4329.74	316.71	61.57	Bow Spring Centralizer
65		41.23	2601.10	13527.90	13569.13	6.37	0.99	402.11	452.02	4399.48	321.81	62.56	
		16.30	2617.40	13511.60	13527.90	2.52	0.39	404.63	454.86	4427.05	323.83	62.95	ECP
		3.63	2621.03	13507.97	13511.60	0.56	0.09	405.19	455.49	4433.19	324.28	63.04	DV Tool
		6.54	2627.57	13501.43	13507.97	1.01	0.16	406.20	456.62	4444.25	325.09	63.20	Pup Joint
66		41.26	2668.83	13460.17	13501.43	6.38	0.99	412.58	463.79	4514.04	330.19	64.19	
67		40.64	2709.47	13419.53	13460.17	6.28	0.98	418.87	470.86	4582.77	335.22	65.17	Bow Spring Centralizer
68		40.93	2750.42	13378.58	13419.53	6.33	0.98	425.20	477.97	4652.04	340.29	66.15	
69		40.82	2791.24	13337.76	13378.58	6.31	0.98	431.51	485.07	4721.08	345.34	67.13	
70		41.26	2832.50	13296.50	13337.76	6.38	0.99	437.89	492.24	4790.87	350.44	68.13	Bow Spring Centralizer
71		41.26	2873.76	13255.24	13296.50	6.38	0.99	444.26	499.41	4860.65	355.55	69.12	
72		40.82	2914.58	13214.42	13255.24	6.31	0.98	450.57	506.50	4929.70	360.60	70.10	
73		41.28	2955.86	13173.14	13214.42	6.38	0.99	456.96	513.67	4999.52	365.70	71.09	Bow Spring Centralizer
74		41.34	2997.20	13131.80	13173.14	6.39	0.99	463.35	520.86	5069.44	370.82	72.09	
75		41.08	3038.28	13090.72	13131.80	6.35	0.99	469.70	528.00	5138.92	375.90	73.07	
76		40.9											

92	41.32	3737.79	12391.21	12432.53	6.39	0.99	577.84	649.56	6322.07	462.45	89.90	
93	40.58	3778.37	12350.63	12391.21	6.27	0.98	584.11	656.61	6390.70	467.47	90.87	
94	40.72	3819.09	12309.91	12350.63	6.20	0.98	590.41	663.69	6459.58	472.51	91.85	Bow Spring Centralizer
95	40.88	3859.97	12269.03	12309.91	6.32	0.98	596.73	670.79	6528.72	477.56	92.84	
96	41.17	3901.14	12227.86	12269.03	6.36	0.99	603.09	677.95	6598.36	482.66	93.83	
97	40.98	3942.12	12186.88	12227.86	6.34	0.99	609.42	685.07	6667.67	487.73	94.81	Bow Spring Centralizer
98	41.10	3983.22	12145.78	12186.88	6.35	0.99	615.78	692.21	6737.18	492.81	95.80	
99	41.11	4024.33	12104.67	12145.78	6.36	0.99	622.13	699.35	6806.72	497.90	96.79	
100	40.85	4065.18	12063.82	12104.67	6.32	0.98	628.45	706.45	6875.81	502.95	97.77	Bow Spring Centralizer
101	41.12	4106.30	12022.70	12063.82	6.36	0.99	634.81	713.60	6945.36	508.04	98.76	
102	41.18	4147.48	11981.52	12022.70	6.37	0.99	641.17	720.76	7015.01	513.13	99.75	
103	41.16	4188.64	11940.36	11981.52	6.36	0.99	647.54	727.91	7084.63	518.23	100.74	Bow Spring Centralizer
104	40.88	4229.52	11899.48	11940.36	6.32	0.98	653.85	735.01	7153.77	523.28	101.73	
105	41.15	4270.67	11858.33	11899.48	6.36	0.99	660.22	742.16	7223.38	528.38	102.72	
106	41.41	4312.08	11816.92	11858.33	6.40	1.00	666.62	749.36	7293.42	533.50	103.71	Bow Spring Centralizer
107	41.28	4353.36	11775.64	11816.92	6.38	0.99	673.00	756.53	7363.24	538.61	104.70	
108	41.39	4394.75	11734.25	11775.64	6.40	1.00	679.40	763.73	7433.24	543.73	105.70	
109	41.41	4436.16	11692.84	11734.25	6.40	1.00	685.80	770.92	7503.28	548.85	106.70	Bow Spring Centralizer
110	40.79	4476.95	11652.05	11692.84	6.31	0.98	692.11	778.01	7572.28	553.90	107.68	
111	41.28	4518.23	11610.77	11652.05	6.38	0.99	698.49	785.18	7642.10	559.00	108.67	
112	40.72	4558.95	11570.05	11610.77	6.30	0.98	704.78	792.26	7710.97	564.04	109.65	Bow Spring Centralizer
113	41.41	4600.36	11528.64	11570.05	6.40	1.00	711.18	799.46	7781.01	569.17	110.64	
114	41.41	4641.77	11487.23	11528.64	6.40	1.00	717.59	806.65	7851.05	574.29	111.64	
115	41.32	4683.09	11445.91	11487.23	6.39	0.99	723.97	813.83	7920.94	579.40	112.63	Bow Spring Centralizer
116	40.98	4724.07	11404.93	11445.91	6.34	0.99	730.31	820.96	7990.25	584.47	113.62	
117	40.44	4764.51	11364.49	11404.93	6.25	0.97	736.56	827.98	8058.65	589.47	114.59	
118	41.22	4805.73	11323.27	11364.49	6.37	0.99	742.93	835.15	8128.37	594.57	115.58	Bow Spring Centralizer
119	41.41	4847.14	11281.86	11323.27	6.40	1.00	749.33	842.34	8198.41	599.70	116.58	
120	41.14	4888.28	11240.72	11281.86	6.36	0.99	755.69	849.49	8268.00	604.79	117.57	
121	41.22	4929.50	11199.50	11240.72	6.37	0.99	762.07	856.66	8337.71	609.89	118.56	Bow Spring Centralizer
122	41.22	4970.72	11158.28	11199.50	6.37	0.99	768.44	863.82	8407.43	614.99	119.55	
123	41.10	5011.82	11117.18	11158.28	6.35	0.99	774.79	870.96	8476.95	620.07	120.54	
124	41.15	5052.97	11076.03	11117.18	6.36	0.99	781.15	878.11	8546.55	625.16	121.53	Bow Spring Centralizer
125	41.20	5094.17	11034.83	11076.03	6.37	0.99	787.52	885.27	8616.24	630.26	122.52	
126	41.10	5135.27	10993.73	11034.83	6.35	0.99	793.88	892.41	8685.75	635.35	123.51	
127	41.09	5176.36	10952.64	10993.73	6.35	0.99	800.23	899.56	8755.25	640.43	124.50	Bow Spring Centralizer
128	41.20	5217.56	10911.44	10952.64	6.37	0.99	806.60	906.72	8824.94	645.53	125.49	
129	41.09	5258.65	10870.35	10911.44	6.35	0.99	812.95	913.86	8894.44	650.61	126.48	
130	41.02	5299.67	10829.33	10870.35	6.34	0.99	819.29	920.98	8963.82	655.69	127.46	Bow Spring Centralizer
131	41.07	5340.74	10788.26	10829.33	6.35	0.99	825.64	928.12	9033.28	660.77	128.45	
132	41.14	5381.88	10747.12	10788.26	6.36	0.99	832.00	935.27	9102.87	665.86	129.44	
133	40.88	5422.76	10706.24	10747.12	6.32	0.98	838.32	942.38	9172.01	670.91	130.42	Bow Spring Centralizer
134	41.17	5463.93	10665.07	10706.24	6.36	0.99	844.69	949.53	9241.64	676.01	131.41	
135	41.18	5505.11	10623.89	10665.07	6.37	0.99	851.05	956.69	9311.30	681.10	132.41	
136	41.18	5546.29	10582.71	10623.89	6.37	0.99	857.42	963.84	9380.95	686.20	133.40	Bow Spring Centralizer
137	40.87	5587.11	10541.89	10582.71	6.31	0.98	863.73	970.94	9449.99	691.25	134.38	
138	40.98	5628.09	10500.91	10541.89	6.34	0.99	870.06	978.06	9519.30	696.32	135.36	
139	41.30	5669.39	10459.61	10500.91	6.38	0.99	876.45	985.23	9589.16	701.43	136.36	Bow Spring Centralizer
140	41.41	5710.80	10418.20	10459.61	6.40	1.00	882.85	992.43	9659.20	706.55	137.35	
141	41.22	5752.02	10376.98	10418.20	6.37	0.99	889.22	999.59	9728.92	711.65	138.34	
142	41.12	5793.14	10335.86	10376.98	6.36	0.99	895.58	1006.74	9798.47	716.74	139.33	Bow Spring Centralizer
143	40.88	5834.02	10294.96	10335.86	6.32	0.98	901.90	1013.84	9867.61	721.80	140.32	
144	41.18	5875.20	10253.80	10294.96	6.37	0.99	908.27	1021.00	9937.26	726.89	141.31	
145	40.62	5915.82	10213.18	10253.80	6.28	0.98	914.55	1028.06	10005.97	731.92	142.28	Bow Spring Centralizer
146	40.82	5956.64	10172.36	10213.18	6.31	0.98	920.86	1035.15	10075.01	736.97	143.26	
147	40.82	5997.46	10131.54	10172.36	6.31	0.98	927.17	1042.25	10144.05	742.02	144.25	
148	40.82	6038.28	10090.72	10131.54	6.31	0.98	933.48	1049.34	10213.10	747.07	145.23	Bow Spring Centralizer
149	40.84	6079.12	10049.88	10090.72	6.31	0.98	939.79	1056.44	10282.17	752.12	146.21	
150	40.95	6120.07	10008.93	10049.88	6.33	0.98	946.12	1063.55	10351.43	757.19	147.20	
151	40.88	6160.95	9968.05	10008.93	6.32	0.98	952.44	1070.66	10420.58	762.24	148.18	Bow Spring Centralizer
152	40.78	6201.73	9927.27	9968.05	6.30	0.98	958.75	1077.75	10489.55	767.29	149.16	
153	40.72	6242.45	9886.55	9927.27	6.30	0.98	965.04	1084.82	10558.43	772.33	150.14	
154	41.00	6283.45	9845.55	9886.55	6.34	0.99	971.38	1091.95	10627.77	777.40	151.13	Bow Spring Centralizer
155	41.11	6324.56	9804.44	9845.55	6.36	0.99	977.73	1099.09	10697.31	782.49	152.11	
156	40.95	6365.51	9763.49	9804.44	6.33	0.98	984.06	1106.21	10766.57	787.55	153.10	
157	40.98	6406.49	9722.51	9763.49	6.34	0.99	990.40	1113.33	10835.88	792.62	154.08	Bow Spring Centralizer
158	41.02	6447.51	9681.49	9722.51	6.34	0.99	996.74	1120.46	10905.26	797.70	155.07	
159	41.15	6488.66	9640.34	9681.49	6.36	0.99	1003.10	1127.61	10974.86	802.79	156.06	
160	40.64	6529.30	9599.70	9640.34	6.28	0.98	1009.39	1134.67	11043.60	807.82	157.04	Bow Spring Centralizer
161	41.02	6570.32	9558.68	9599.70	6.34	0.99	1015.73	1141.80	11112.98	812.89	158.02	
162	41.41	6611.73	9517.27	9558.68	6.40	1.00	1022.13	1149.00	11183.02	818.02	159.02	
163	41.20	6652.93	9476.07	9517.27	6.37	0.99	1028.50	1156.16	11252.71	823.11	160.01	Bow Spring Centralizer
164	41.14	6694.07	9434.93	9476.07	6.36	0.99	1034.86	1163.31	11322.29	828.20	161.00	
165	41.12	6735.19	9393.81	9434.93	6.36	0.99	1041.21	1170.45	11391.84	833.29	161.99	
166	41.41	6776.60	9352.40	9393.81	6.40	1.00	1047.62	1177.65	11461.88	838.41	162.99	Bow Spring Centralizer
167	41.38	6817.98	9311.02	9352.40	6.40	1.00	1054.01	1184.84	11531.87	843.53	163.98	
168	41.34	6859.32	9269.68	9311.02	6.39	0.99	1060.40	1192.02	11601.80	848.65	164.98	
169	40.12	6899.44	9229.56	9269.68	6.20	0.96	1066.61	1198.99	11669.65	853.61	165.94	Bow Spring Centralizer
170	41.18	6940.62	9188.38	9229.56	6.37	0.99	1072.97	1206.15	11739.31	858.71	166.93	
171	41.18	6981.80	9147.20	9188.38	6.37	0.99	1079.34	1213.31	11808.96	863.80	167.92	
172	41.12	7022.92	9106.08	9147.20	6.36	0.99	1085.70	1220.45	11878.51	868.89	168.91	Bow Spring Centralizer
173	41.04	7063.96	9065.04	9106.08	6.34	0.99	1092.04	1227.59	11947.92	873.97	169.90	
174	40.98	7104.94	9024.06	9065.04	6.34	0.99	1098.38	1234.71	12017.24	879.04	170.88	
175	41.32	7146.26	8982.74	9024.06	6.39	0.99	1104.76	1241.89	12087.12	884.15	171.88	Bow Spring Centralizer
176	41.15	7187.41	8941.59	8982.74	6.36	0.99	1111.12	1249.04	12156.72	889.24	172.87	
177	41.20	7228.61	8900.39	8941.59	6.37	0.99	1117.49	1256.20	12226.41	894.34	173.86	
178	41.18	7269.79	8859.21	8900.39	6.37	0.99	1123.86	1263.35	12296.06	899.43	174.85	Bow Spring Centralizer
179												

198	41.41	8091.44	8037.56	8078.97	6.40	1.00	1250.88	1406.14	13685.79	1001.09	194.61	
199	41.12	8132.56	7996.44	8037.56	6.36	0.99	1257.24	1413.29	13755.34	1006.18	195.60	Bow Spring Centralizer
200	41.12	8173.68	7955.32	7996.44	6.36	0.99	1263.60	1420.43	13824.89	1011.26	196.59	
201	41.27	8214.90	7914.10	7955.32	6.37	0.99	1269.97	1427.60	13894.61	1016.36	197.58	
202	40.98	8255.88	7873.12	7914.10	6.34	0.99	1276.30	1434.72	13963.93	1021.43	198.56	Bow Spring Centralizer
203	40.97	8296.85	7832.15	7873.12	6.33	0.99	1282.64	1441.84	14033.22	1026.50	199.55	
204	41.28	8338.13	7790.87	7832.15	6.38	0.99	1289.02	1449.01	14103.04	1031.61	200.54	
205	41.15	8379.28	7749.72	7790.87	6.36	0.99	1295.38	1456.16	14172.64	1036.70	201.53	Bow Spring Centralizer
206	41.15	8420.43	7708.57	7749.72	6.36	0.99	1301.74	1463.31	14242.24	1041.79	202.52	
207	41.02	8461.45	7667.55	7708.57	6.34	0.99	1308.08	1470.44	14311.62	1046.87	203.51	
208	41.41	8502.86	7626.14	7667.55	6.40	1.00	1314.48	1477.64	14381.67	1051.99	204.50	Bow Spring Centralizer
209	41.17	8544.03	7584.97	7626.14	6.36	0.99	1320.85	1484.79	14451.30	1057.08	205.49	
210	41.28	8585.31	7543.69	7584.97	6.38	0.99	1327.23	1491.97	14521.12	1062.19	206.49	
211	41.06	8626.37	7502.63	7543.69	6.35	0.99	1333.58	1499.10	14590.57	1067.27	207.48	Bow Spring Centralizer
212	41.11	8667.48	7461.52	7502.63	6.36	0.99	1339.93	1506.25	14660.10	1072.36	208.46	
213	41.05	8708.53	7420.47	7461.52	6.35	0.99	1346.28	1513.38	14729.53	1077.44	209.45	
214	41.41	8749.94	7379.06	7420.47	6.40	1.00	1352.68	1520.58	14799.57	1082.56	210.45	Bow Spring Centralizer
215	41.41	8791.35	7337.65	7379.06	6.40	1.00	1359.08	1527.77	14869.61	1087.68	211.44	
216	41.14	8832.49	7296.51	7337.65	6.36	0.99	1365.44	1534.92	14939.20	1092.77	212.43	
217	41.12	8873.61	7255.39	7296.51	6.36	0.99	1371.80	1542.07	15008.75	1097.86	213.42	Bow Spring Centralizer
218	41.00	8914.61	7214.39	7255.39	6.34	0.99	1378.14	1549.19	15078.10	1102.93	214.41	
219	41.18	8955.79	7173.21	7214.39	6.37	0.99	1384.50	1556.35	15147.75	1108.03	215.40	
220	41.19	8996.98	7132.02	7173.21	6.37	0.99	1390.87	1563.51	15217.42	1113.12	216.39	Bow Spring Centralizer
221	41.08	9038.06	7090.94	7132.02	6.35	0.99	1397.22	1570.65	15286.90	1118.21	217.38	
222	41.09	9079.15	7049.85	7090.94	6.35	0.99	1403.57	1577.79	15356.40	1123.29	218.37	
223	40.90	9120.05	7008.95	7049.85	6.32	0.98	1409.90	1584.90	15425.58	1128.35	219.35	Bow Spring Centralizer
224	41.08	9161.13	6967.87	7008.95	6.35	0.99	1416.25	1592.03	15495.06	1133.43	220.34	
225	39.85	9200.98	6928.02	6967.87	6.16	0.96	1422.41	1598.96	15562.46	1138.36	221.30	
226	41.29	9242.27	6886.73	6928.02	6.38	0.99	1428.79	1606.14	15632.30	1143.47	222.29	Bow Spring Centralizer
227	41.37	9283.64	6845.36	6886.73	6.40	1.00	1435.19	1613.32	15702.27	1148.59	223.28	
228	41.30	9324.94	6804.06	6845.36	6.38	0.99	1441.57	1620.50	15772.12	1153.70	224.28	
229	41.07	9365.96	6763.04	6804.06	6.34	0.99	1447.91	1627.63	15841.51	1158.77	225.26	Bow Spring Centralizer
230	41.08	9407.04	6721.96	6763.04	6.35	0.99	1454.26	1634.77	15910.99	1163.86	226.25	
231	41.21	9448.25	6680.75	6721.96	6.37	0.99	1460.64	1641.93	15980.69	1168.96	227.24	
232	41.30	9489.55	6639.45	6680.75	6.38	0.99	1467.02	1649.11	16050.54	1174.07	228.24	Bow Spring Centralizer
233	40.92	9530.47	6598.53	6639.45	6.33	0.98	1473.35	1656.22	16119.76	1179.13	229.22	
234	41.11	9571.58	6557.42	6598.53	6.36	0.99	1479.70	1663.36	16189.29	1184.21	230.21	
235	40.88	9612.46	6516.54	6557.42	6.32	0.98	1486.02	1670.47	16258.43	1189.27	231.19	Bow Spring Centralizer
236	41.00	9653.46	6475.54	6516.54	6.34	0.99	1492.36	1677.59	16327.78	1194.34	232.18	
237	40.66	9694.12	6434.88	6475.54	6.29	0.98	1498.64	1684.66	16396.55	1199.38	233.16	
238	41.41	9735.53	6393.47	6434.88	6.40	1.00	1505.05	1691.85	16466.59	1204.50	234.15	Bow Spring Centralizer
239	41.25	9776.78	6352.22	6393.47	6.38	0.99	1511.42	1699.02	16536.36	1209.60	235.14	
240	41.41	9818.19	6310.81	6352.22	6.40	1.00	1517.83	1706.22	16606.40	1214.73	236.14	
241	41.24	9859.43	6269.57	6310.81	6.38	0.99	1524.20	1713.39	16676.16	1219.83	237.13	Bow Spring Centralizer
242	40.96	9900.39	6228.61	6269.57	6.33	0.99	1530.53	1720.50	16745.44	1224.90	238.12	
243	38.56	9938.95	6190.05	6228.61	5.96	0.93	1536.49	1727.21	16810.66	1229.67	239.04	
244	41.25	9980.20	6148.80	6190.05	6.38	0.99	1542.87	1734.37	16880.43	1234.77	240.04	Bow Spring Centralizer
245	41.01	10021.21	6107.79	6148.80	6.34	0.99	1549.21	1741.50	16949.79	1239.84	241.02	
246	41.25	10062.46	6066.54	6107.79	6.38	0.99	1555.59	1748.67	17019.56	1244.95	242.02	
247	41.16	10103.62	6025.38	6066.54	6.36	0.99	1561.95	1755.82	17089.18	1250.04	243.01	Bow Spring Centralizer
248	41.09	10144.71	5984.29	6025.38	6.35	0.99	1568.30	1762.96	17158.68	1255.12	243.99	
249	41.07	10185.78	5943.22	5984.29	6.35	0.99	1574.65	1770.10	17228.14	1260.20	244.98	
250	41.30	10227.08	5901.92	5943.22	6.38	0.99	1581.04	1777.28	17298.00	1265.31	245.97	Bow Spring Centralizer
251	41.41	10268.49	5860.51	5901.92	6.40	1.00	1587.44	1784.47	17368.04	1270.44	246.97	
252	41.10	10309.59	5819.41	5860.51	6.35	0.99	1593.79	1791.62	17437.55	1275.52	247.96	
253	39.75	10349.34	5779.66	5819.41	6.15	0.96	1599.94	1798.52	17504.79	1280.44	248.91	Bow Spring Centralizer
254	41.05	10390.39	5738.61	5779.66	6.35	0.99	1606.28	1805.66	17574.22	1285.52	249.90	
255	40.85	10431.24	5697.76	5738.61	6.32	0.98	1612.60	1812.76	17643.31	1290.57	250.88	
256	41.27	10472.51	5656.49	5697.76	6.38	0.99	1618.98	1819.93	17713.11	1295.68	251.88	Bow Spring Centralizer
257	39.95	10512.46	5616.54	5656.49	6.18	0.96	1625.15	1826.87	17780.69	1300.62	252.84	
258	41.20	10553.66	5575.34	5616.54	6.37	0.99	1631.52	1834.03	17850.37	1305.72	253.83	
259	39.80	10593.46	5535.54	5575.34	6.15	0.96	1637.68	1840.95	17917.69	1310.64	254.79	Bow Spring Centralizer
260	40.79	10634.25	5494.75	5535.54	6.31	0.98	1643.98	1848.04	17986.68	1315.69	255.77	
261	40.88	10675.13	5453.87	5494.75	6.32	0.98	1650.30	1855.14	18055.82	1320.75	256.75	
262	41.22	10716.35	5412.65	5453.87	6.37	0.99	1656.67	1862.30	18125.54	1325.85	257.74	Bow Spring Centralizer
263	41.28	10757.63	5371.37	5412.65	6.38	0.99	1663.06	1869.48	18195.36	1330.95	258.73	
264	40.78	10798.41	5330.59	5371.37	6.30	0.98	1669.36	1876.56	18264.34	1336.00	259.72	
265	41.41	10839.82	5289.18	5330.59	6.40	1.00	1675.76	1883.76	18334.38	1341.12	260.71	Bow Spring Centralizer
266	40.78	10880.60	5248.40	5289.18	6.30	0.98	1682.07	1890.85	18403.35	1346.17	261.69	
267	41.02	10921.62	5207.38	5248.40	6.34	0.99	1688.41	1897.97	18472.74	1351.24	262.68	
268	41.18	10962.80	5166.20	5207.38	6.37	0.99	1694.77	1905.13	18542.39	1356.34	263.67	Bow Spring Centralizer
269	41.28	11004.08	5124.92	5166.20	6.38	0.99	1701.16	1912.30	18612.21	1361.45	264.66	
270	39.79	11043.87	5085.13	5124.92	6.15	0.96	1707.31	1919.22	18679.51	1366.37	265.62	
271	40.89	11084.76	5044.24	5085.13	6.32	0.98	1713.63	1926.33	18748.67	1371.43	266.60	Bow Spring Centralizer
272	41.02	11125.78	5003.22	5044.24	6.34	0.99	1719.97	1933.45	18818.05	1376.50	267.59	
273	40.85	11166.63	4962.37	5003.22	6.32	0.98	1726.28	1940.55	18887.14	1381.56	268.57	
274	41.04	11207.67	4921.33	4962.37	6.34	0.99	1732.63	1947.69	18956.56	1386.63	269.56	Bow Spring Centralizer
275	40.28	11247.95	4881.05	4921.33	6.23	0.97	1738.86	1954.69	19024.69	1391.62	270.53	
276	40.87	11288.82	4840.18	4881.05	6.32	0.98	1745.17	1961.79	19093.81	1396.67	271.51	
277	41.28	11330.10	4798.90	4840.18	6.38	0.99	1751.56	1968.96	19163.64	1401.78	272.50	Bow Spring Centralizer
278	41.38	11371.48	4757.52	4798.90	6.40	1.00	1757.95	1976.15	19233.62	1406.90	273.50	
279	41.04	11412.52	4716.48	4757.52	6.34	0.99	1764.30	1983.28	19303.04	1411.98	274.49	
280	41.34	11453.86	4675.14	4716.48	6.39	0.99	1770.69	1990.47	19372.96	1417.09	275.48	Bow Spring Centralizer
281	40.63	11494.49	4634.51	4675.14	6.28	0.98	1776.97	1997.53	19441.68	1422.12	276.46	
282	41.39	11535.88	4593.12	4634.51	6.40	1.00	1783.37	2004.72	19511.69	1427.24	277.45	
283	41.05	11576.93	4552.07	4593.12	6.35	0.99	1789.71	2011.86	19			

304	41.05	12437.39	3691.61	3732.66	6.35	0.99	1922.74	2161.39	21036.50	1538.78	299.14	Bow Spring Centralizer
305	41.02	12478.41	3650.59	3691.61	6.34	0.99	1929.08	2168.52	21105.88	1543.85	300.12	
306	40.90	12519.31	3609.69	3650.59	6.32	0.98	1935.40	2175.62	21175.05	1548.91	301.11	
307	41.07	12560.38	3568.62	3609.69	6.35	0.99	1941.75	2182.76	21244.52	1553.99	302.09	Bow Spring Centralizer
308	41.28	12601.66	3527.34	3568.62	6.38	0.99	1948.13	2189.93	21314.34	1559.10	303.09	
309	41.12	12642.78	3486.22	3527.34	6.36	0.99	1954.49	2197.08	21383.89	1564.19	304.08	
310	41.08	12683.86	3445.14	3486.22	6.35	0.99	1960.84	2204.22	21453.37	1569.27	305.06	Bow Spring Centralizer
311	39.94	12723.80	3405.20	3445.14	6.17	0.96	1967.01	2211.16	21520.93	1574.21	306.02	
312	41.14	12764.94	3364.06	3405.20	6.36	0.99	1973.37	2218.31	21590.51	1579.30	307.01	
313	41.18	12806.12	3322.88	3364.06	6.37	0.99	1979.74	2225.47	21660.16	1584.40	308.00	Bow Spring Centralizer
314	41.24	12847.36	3281.64	3322.88	6.38	0.99	1986.11	2232.63	21729.92	1589.50	309.00	
315	41.00	12888.36	3240.64	3281.64	6.34	0.99	1992.45	2239.76	21799.26	1594.57	309.98	
316	41.09	12929.45	3199.55	3240.64	6.35	0.99	1998.80	2246.90	21868.76	1599.66	310.97	Bow Spring Centralizer
317	39.04	12968.49	3160.51	3199.55	6.04	0.94	2004.84	2253.68	21934.79	1604.49	311.91	
318	41.10	13009.59	3119.41	3160.51	6.35	0.99	2011.19	2260.83	22004.31	1609.57	312.90	
319	41.01	13050.60	3078.40	3119.41	6.34	0.99	2017.53	2267.95	22073.67	1614.65	313.88	Bow Spring Centralizer
320	41.20	13091.80	3037.20	3078.40	6.37	0.99	2023.90	2275.11	22143.36	1619.74	314.87	
321	41.41	13133.21	2995.79	3037.20	6.40	1.00	2030.30	2282.31	22213.40	1624.87	315.87	
322	40.04	13173.25	2955.75	2995.79	6.19	0.96	2036.49	2289.27	22281.12	1629.82	316.83	Bow Spring Centralizer
323	40.87	13214.12	2914.88	2955.75	6.32	0.98	2042.81	2296.37	22350.25	1634.88	317.82	
324	41.05	13255.17	2873.83	2914.88	6.35	0.99	2049.16	2303.50	22419.68	1639.96	318.80	
325	41.30	13296.47	2832.53	2873.83	6.38	0.99	2055.54	2310.68	22489.54	1645.07	319.80	Bow Spring Centralizer
326	41.30	13337.77	2791.23	2832.53	6.38	0.99	2061.93	2317.86	22559.39	1650.17	320.79	
327	41.41	13379.18	2749.82	2791.23	6.40	1.00	2068.33	2325.05	22629.43	1655.30	321.79	
328	40.57	13419.75	2709.25	2749.82	6.27	0.98	2074.60	2332.10	22698.05	1660.32	322.76	Bow Spring Centralizer
329	41.15	13460.90	2668.10	2709.25	6.36	0.99	2080.96	2339.25	22767.65	1665.41	323.75	
330	41.18	13502.08	2626.92	2668.10	6.37	0.99	2087.33	2346.41	22837.30	1670.50	324.74	
331	41.20	13543.28	2585.72	2626.92	6.37	0.99	2093.70	2353.57	22906.99	1675.60	325.73	Bow Spring Centralizer
332	41.10	13584.38	2544.62	2585.72	6.35	0.99	2100.05	2360.71	22976.51	1680.69	326.72	
333	40.70	13625.08	2503.92	2544.62	6.29	0.98	2106.34	2367.79	23045.34	1685.72	327.70	
334	41.04	13666.12	2462.88	2503.92	6.34	0.99	2112.69	2374.92	23114.76	1690.80	328.69	Bow Spring Centralizer
335	40.57	13706.69	2422.31	2462.88	6.27	0.98	2118.96	2381.97	23183.38	1695.82	329.66	
336	41.28	13747.97	2381.03	2422.31	6.38	0.99	2125.34	2389.14	23253.20	1700.93	330.66	
337	41.24	13789.21	2339.79	2381.03	6.38	0.99	2131.72	2396.31	23322.95	1706.03	331.65	Bow Spring Centralizer
338	41.14	13830.35	2298.65	2339.79	6.36	0.99	2138.08	2403.46	23392.54	1711.12	332.64	
339	41.38	13871.73	2257.27	2298.65	6.40	1.00	2144.47	2410.65	23462.53	1716.24	333.63	
340	41.09	13912.82	2216.18	2257.27	6.35	0.99	2150.83	2417.79	23532.03	1721.32	334.62	Bow Spring Centralizer
341	41.02	13953.84	2175.16	2216.18	6.34	0.99	2157.17	2424.92	23601.41	1726.40	335.61	
342	41.10	13994.94	2134.06	2175.16	6.35	0.99	2163.52	2432.06	23670.92	1731.48	336.60	
343	41.34	14036.28	2092.72	2134.06	6.39	0.99	2169.91	2439.25	23740.85	1736.60	337.59	Bow Spring Centralizer
344	41.18	14077.46	2051.54	2092.72	6.37	0.99	2176.28	2446.40	23810.50	1741.69	338.58	
345	40.55	14118.01	2010.99	2051.54	6.27	0.98	2182.55	2453.45	23879.08	1746.71	339.56	
346	41.14	14159.15	1969.85	2010.99	6.36	0.99	2188.91	2460.60	23948.67	1751.80	340.55	Bow Spring Centralizer
347	41.28	14200.43	1928.57	1969.85	6.38	0.99	2195.29	2467.77	24018.49	1756.90	341.54	
348	41.37	14241.75	1887.25	1928.57	6.39	0.99	2201.68	2474.95	24088.38	1762.02	342.53	
349	41.27	14282.97	1846.03	1887.25	6.37	0.99	2208.05	2482.12	24158.09	1767.12	343.52	Bow Spring Centralizer
350	41.41	14324.38	1804.62	1846.03	6.40	1.00	2214.45	2489.31	24228.13	1772.24	344.52	
351	41.11	14365.49	1763.51	1804.62	6.36	0.99	2220.81	2496.46	24297.67	1777.33	345.51	
352	41.18	14406.67	1722.33	1763.51	6.37	0.99	2227.17	2503.61	24367.32	1782.42	346.50	Bow Spring Centralizer
353	41.15	14447.82	1681.18	1722.33	6.36	0.99	2233.53	2510.76	24436.92	1787.51	347.49	
354	41.02	14488.84	1640.16	1681.18	6.34	0.99	2239.88	2517.89	24506.30	1792.59	348.48	
355	40.65	14529.49	1599.51	1640.16	6.28	0.98	2246.16	2524.96	24575.06	1797.62	349.45	Bow Spring Centralizer
356	40.89	14570.38	1558.62	1599.51	6.32	0.98	2252.48	2532.06	24644.22	1802.68	350.44	
357	41.21	14611.59	1517.41	1558.62	6.37	0.99	2258.85	2539.22	24713.92	1807.77	351.43	
358	40.74	14652.33	1476.67	1517.41	6.30	0.98	2265.15	2546.30	24782.83	1812.81	352.41	Bow Spring Centralizer
359	41.00	14693.33	1435.67	1476.67	6.34	0.99	2271.49	2553.43	24852.17	1817.89	353.39	
360	41.95	14735.28	1393.72	1435.67	6.49	1.01	2277.97	2560.72	24923.13	1823.08	354.40	
361	41.04	14776.32	1352.68	1393.72	6.34	0.99	2284.32	2567.85	24992.54	1828.16	355.39	Bow Spring Centralizer
362	40.98	14817.30	1311.70	1352.68	6.34	0.99	2290.65	2574.97	25061.86	1833.23	356.38	
363	41.04	14858.34	1270.66	1311.70	6.34	0.99	2297.00	2582.10	25131.27	1838.30	357.36	
364	40.98	14899.32	1229.68	1270.66	6.34	0.99	2303.33	2589.23	25200.58	1843.37	358.35	Bow Spring Centralizer
365	40.95	14940.27	1188.73	1229.68	6.33	0.98	2309.66	2596.34	25269.85	1848.44	359.33	
366	41.38	14981.65	1147.35	1188.73	6.40	1.00	2316.06	2603.53	25339.84	1853.56	360.33	
367	41.41	15023.06	1105.94	1147.35	6.40	1.00	2322.46	2610.73	25409.88	1858.68	361.32	Bow Spring Centralizer
368	39.94	15063.00	1066.00	1105.94	6.17	0.96	2328.84	2617.67	25477.43	1863.62	362.28	
369	40.76	15103.76	1025.24	1066.00	6.30	0.98	2334.94	2624.75	25546.37	1868.67	363.26	
370	41.05	15144.81	984.19	1025.24	6.35	0.99	2341.28	2631.89	25615.80	1873.75	364.25	Bow Spring Centralizer
371	41.01	15185.82	943.18	984.19	6.34	0.99	2347.62	2639.01	25685.17	1878.82	365.24	
372	40.89	15226.71	902.29	943.18	6.32	0.98	2353.95	2646.12	25754.33	1883.88	366.22	
373	41.33	15268.04	860.96	902.29	6.39	0.99	2360.33	2653.30	25824.23	1888.99	367.22	Bow Spring Centralizer
374	40.90	15308.94	820.06	860.96	6.32	0.98	2366.66	2660.41	25893.41	1894.05	368.20	
375	41.41	15350.35	778.65	820.06	6.40	1.00	2373.06	2667.61	25963.45	1899.18	369.20	
376	41.15	15391.50	737.50	778.65	6.36	0.99	2379.42	2674.76	26033.05	1904.27	370.19	Bow Spring Centralizer
377	41.28	15432.78	696.22	737.50	6.38	0.99	2385.80	2681.93	26102.87	1909.37	371.18	
378	41.18	15473.96	655.04	696.22	6.37	0.99	2392.17	2689.09	26172.52	1914.47	372.17	
379	41.33	15515.29	613.71	655.04	6.39	0.99	2398.56	2696.27	26242.43	1919.58	373.16	Bow Spring Centralizer
380	41.15	15556.44	572.56	613.71	6.36	0.99	2404.92	2703.42	26312.03	1924.67	374.15	
381	40.95	15597.39	531.61	572.56	6.33	0.98	2411.25	2710.54	26381.29	1929.74	375.14	
382	41.06	15638.45	490.55	531.61	6.35	0.99	2417.60	2717.67	26450.74	1934.82	376.12	Bow Spring Centralizer
383	41.11	15679.56	449.44	490.55	6.36	0.99	2423.95	2724.82	26520.27	1939.91	377.11	
384	41.18	15720.74	408.26	449.44	6.37	0.99	2430.32	2731.97	26589.93	1945.00	378.10	
385	41.25	15761.99	367.01	408.26	6.38	0.99	2436.70	2739.14	26659.70	1950.10	379.10	Bow Spring Centralizer
386	41.15	15803.14	325.86	367.01	6.36	0.99	2443.06	2746.29	26729.30	1955.20	380.09	
387	41.05	15844.19	284.81	325.86	6.35	0.99	2449.40	2753.43	26798.73	1960.27	381.07	
388	41.41	15885.60	243.40	284.81	6.40	1.00	2455.81	2760.62	26868.77	1965.40	382.07	Bow Spring Centralizer
389	41.02	15926.62	202.38	243.40	6.34	0.99	2462.15	2				

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Permian Basin, Odessa

Lab Results- Lead

Job Information

Request/Slurry	2678397/2	Rig Name	Citadel 3	Date	05/APR/2021
Submitted By	Jacob Laufer	Job Type	Production Casing	Bulk Plant	Odessa, TX
Customer	Ameredev II, LLC	Location	Lea	Well	Independence AGI 1

Well Information

Casing/Liner Size	7 in	Depth MD	16230 ft	BHST	90°C / 194°F
Hole Size	8.5 in	Depth TVD	16230 ft	BHCT	70°C / 158°F
Pressure	11700 psi				

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density	11.7 lbm/gal
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Cement Information - Lead Design

Conc	UOM	Cement/Additive	Cement Properties		
		NeoCem™ Cement	Slurry Density	13.2	lbm/gal
100	% BWOC	Cement Blend	Slurry Yield	1.44	ft ³ /sack
7.26	gal/sack	Fresh Water	Water Requirement	7.26	gal/sack
			Total Mix Fluid	7.26	gal/sack
			Water Source	Fresh Water	

Pilot Test Results Request ID 2678397/2

API Fluid Loss, Request Test ID:38107926								06/APR/2021	
Test Temp (degF)	Test Pressure (psi)	Test Time (min)	API FL (cc/30 min)	Meas. Vol.	Conditioning time (min)	Conditioning Temp (degF)			
158	1000	30	120	60	30	158			
API Rheology, Request Test ID:38107927								06/APR/2021	
Temp (degF)	300	200	100	60	30	6	3		
80	43	32	19	13	9	3	2		
API Rheology, Request Test ID:38107928								06/APR/2021	
Temp (degF)	300	200	100	60	30	6	3	Cond Time (min)	Cond Temp (degF)
120	70	56	38	28	20	9	7	30	120
API Rheology, Request Test ID:38107929								06/APR/2021	
Temp (degF)	300	200	100	60	30	6	3	Cond Time (min)	Cond Temp (degF)
158	71	57	38	30	22	11	9	30	158
Free Fluid API 10B-2, Request Test ID:38107930								06/APR/2021	
Con. Temp (degF)	Static T. (F)	Static time (min)	Incl. (deg)	% Fluid					
158	80	120	0	0					

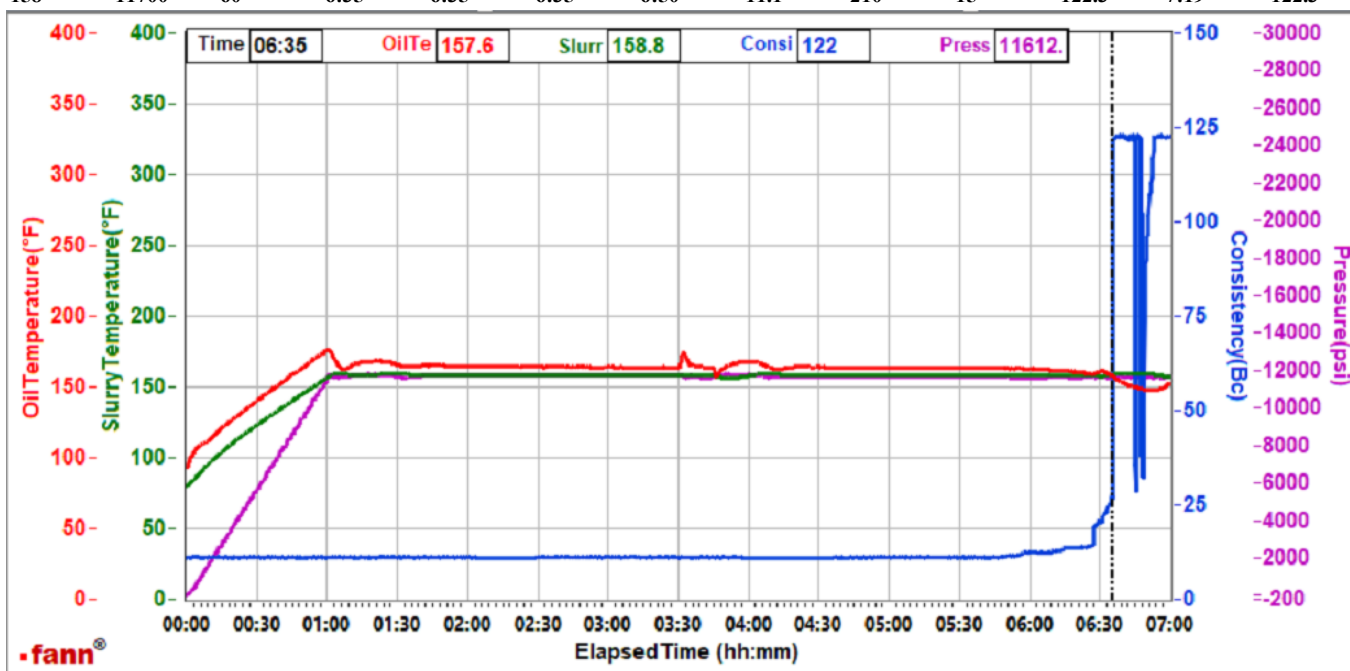
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Thickening Time - ON-OFF-ON, Request Test ID:38110196

07/APR/2021

Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Peak reading (BC)	Termination time (hh:min)	Termination Bc
158	11700	60	6:35	6:35	6:35	6:50	11.1	210	15	122.3	7:19	122.3

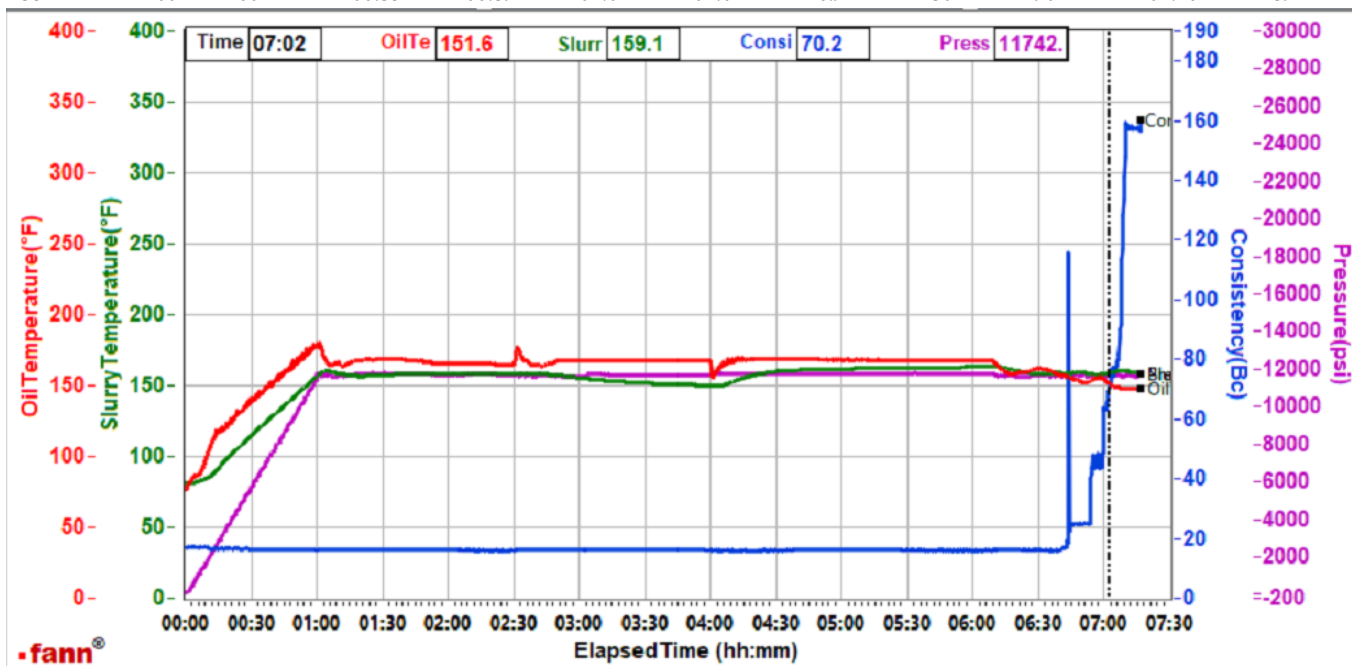


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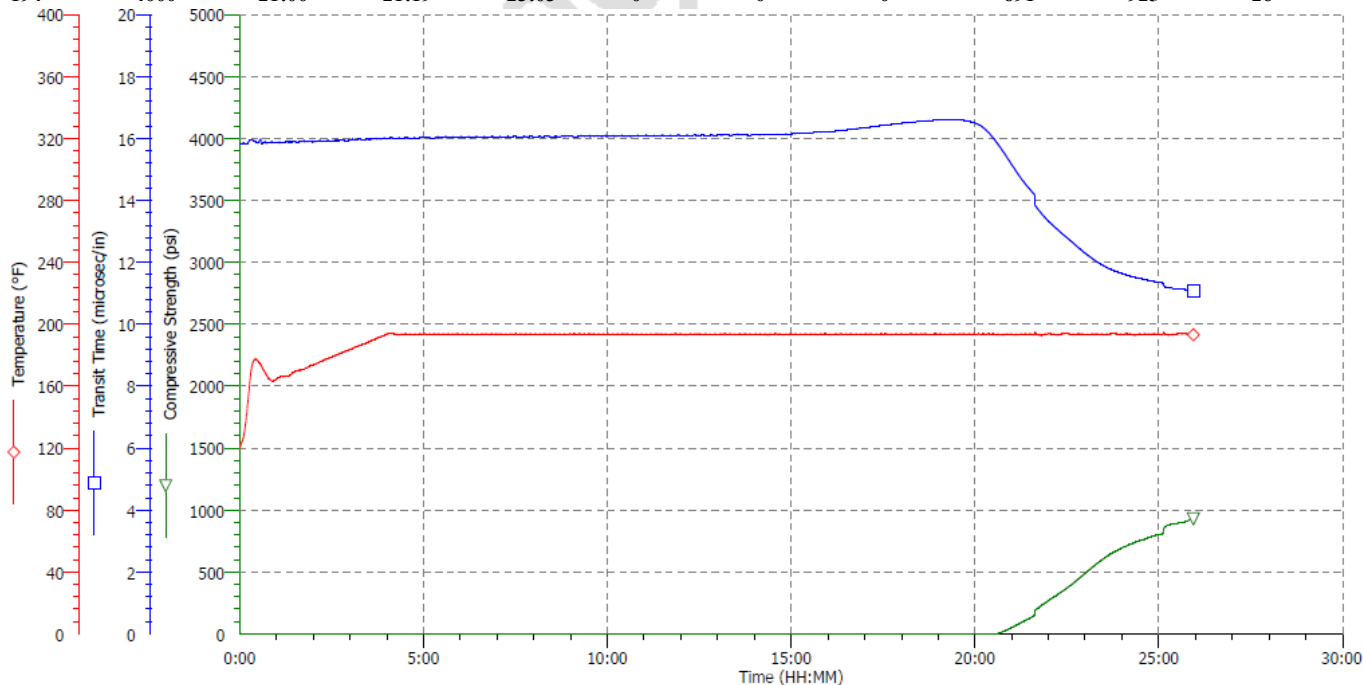
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Thickening Time - ON-OFF-ON, Request Test ID:38110199**07/APR/2021**

Test Temp (degF)	Pressure (psi)	Reached in (min)	30 Bc (hh:min)	50 Bc (hh:min)	70 Bc (hh:min)	100 Bc (hh:min)	Start Bc	Stirring before stop (mins)	Static Period (min)	Termination time (hh:min)	Termination Bc
158	11700	60	06:53	06:59	07:02	07:07	16.9	150	90	07:16	159

**UCA Comp. Strength, Request Test ID:38110198****09/APR/2021**

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)
194	4000	21:00	21:19	23:03	0	0	0	691	925	26



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Permian Basin, Odessa

Lab Results- Tail

Job Information

Request/Slurry	2678398/3	Rig Name	Citadel 3	Date	05/APR/2021
Submitted By	Jacob Laufer	Job Type	Production Casing	Bulk Plant	Odessa, TX
Customer	Ameredev II, LLC	Location	Lea	Well	Independence AGI 1

Well Information

Casing/Liner Size	7 in	Depth MD	16230 ft	BHST	90°C / 194°F
Hole Size	8.5 in	Depth TVD	16230 ft	BHCT	70°C / 158°F
Pressure	10000 psi				

Drilling Fluid Information

Mud Supplier Name	Mud Trade Name	Density	11.7 lbm/gal
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Cement Information - Tail Design

Conc	UOM	Cement/Additive	Cement Properties		
		LockCem™ Cement	Slurry Density	15.3	lbm/gal
100	% BWOC	Cemex Premium H	Slurry Yield	1.28	ft3/sack
4.42	gal/sack	Fresh Water	Water Requirement	4.42	gal/sack
0.4	% BWOC	HALAD-344 (PB)	Total Mix Fluid	5.94	gal/sack
0.3	% BWOC	CFR-3 (PB)			
0.9	% BWOC	HR-601			
0.789	gps	WellLock R1	Water Source	Fresh Water	
0.413	gps	WellLock R2			
0.088	gps	WellLock H1			
0.225	gps	WellLock H3			

Pilot Test Results Request ID 2678398/3**FYSA Viscosity Profile & Gel Strength, Request Test ID:38107933 06/APR/2021**

Test Temp (degF)	300	200	100	60	30	6	3	3D - 3 rpm Decay	6D - 6 rpm Decay	Gel 10 min FYSA reading (1 rpm)	Gel 30 min FYSA reading (1 rpm)	Foam Quality
80	66	47	29	22	13	8	5	4	4	59	87	0

FYSA Viscosity Profile & Gel Strength, Request Test ID:38114629 09/APR/2021

Test Temp (degF)	600	300	200	100	60	30	6	3	3D - 3 rpm Decay	6D - 6 rpm Decay	Cond. time	Gel 10 min FYSA reading (1 rpm)	Gel 30 min FYSA reading (1 rpm)	K1 factor	K2 factor	Foam Quality
120	108	47	35	22	16	10	4	4	1	1	30	12	23	0.45	0.923	0

FYSA Viscosity Profile & Gel Strength, Request Test ID:38107935 06/APR/2021

Test Temp (degF)	300	200	100	60	30	6	3	3D - 3 rpm Decay	6D - 6 rpm Decay	Gel 10 min FYSA reading (1 rpm)	Gel 30 min FYSA reading (1 rpm)	Foam Quality
158	37	28	17	14	10	5	4	1	1	8	22	0

Free Fluid API 10B-2, Request Test ID:38107936 06/APR/2021

Con. Temp (degF)	Cond. Time (min)	Static time (min)	Incl. (deg)	% Fluid
158	30	120	0	0

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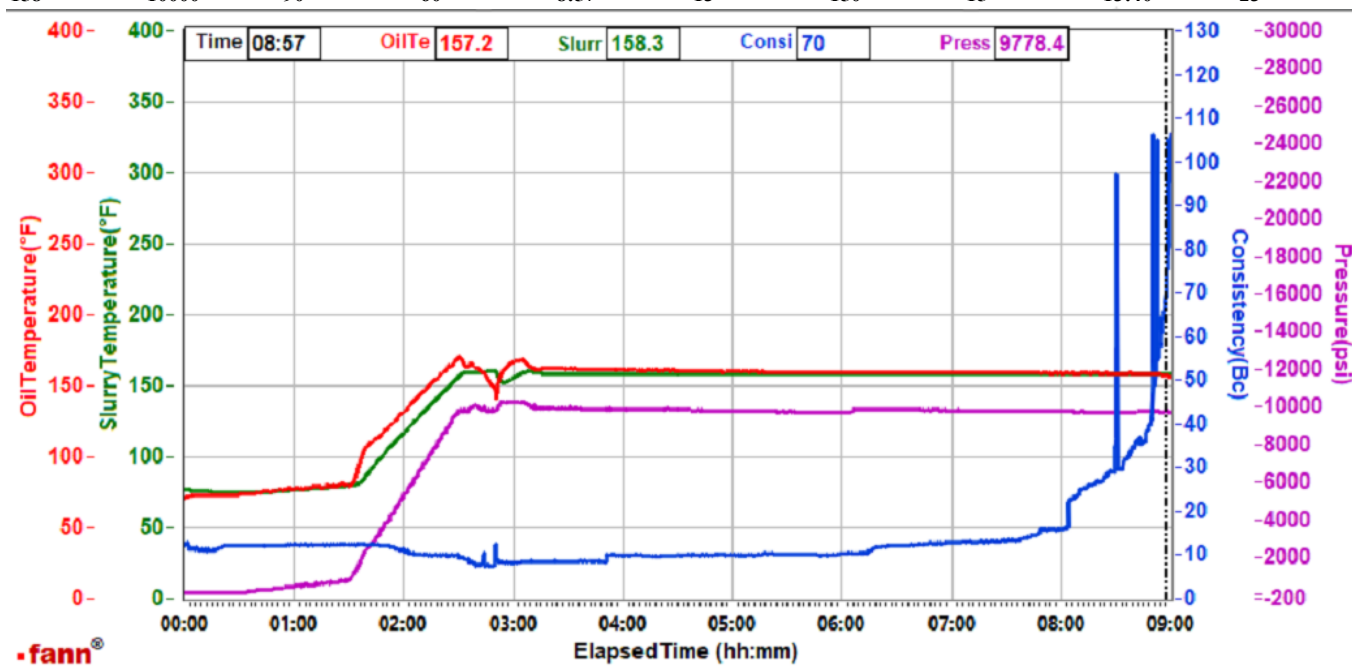
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API Fluid Loss, Request Test ID:38107937**06/APR/2021**

Test Temp (degF)	Test Pressure (psi)	Test Time (min)	API FL (cc/30 min)	Meas. Vol.	Conditioning time (min)	Conditioning Temp (degF)
158	1000	30	38	19	30	158

Thickening Time - ON-OFF-ON, Request Test ID:38121022**13/APR/2021**

Test Temp (degF)	Pressure (psi)	Batch Mix (min)	Reached in (min)	70 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Termination time (hh:mm)	Termination Bc
158	10000	90	60	8:57	13	150	15	13:40	23

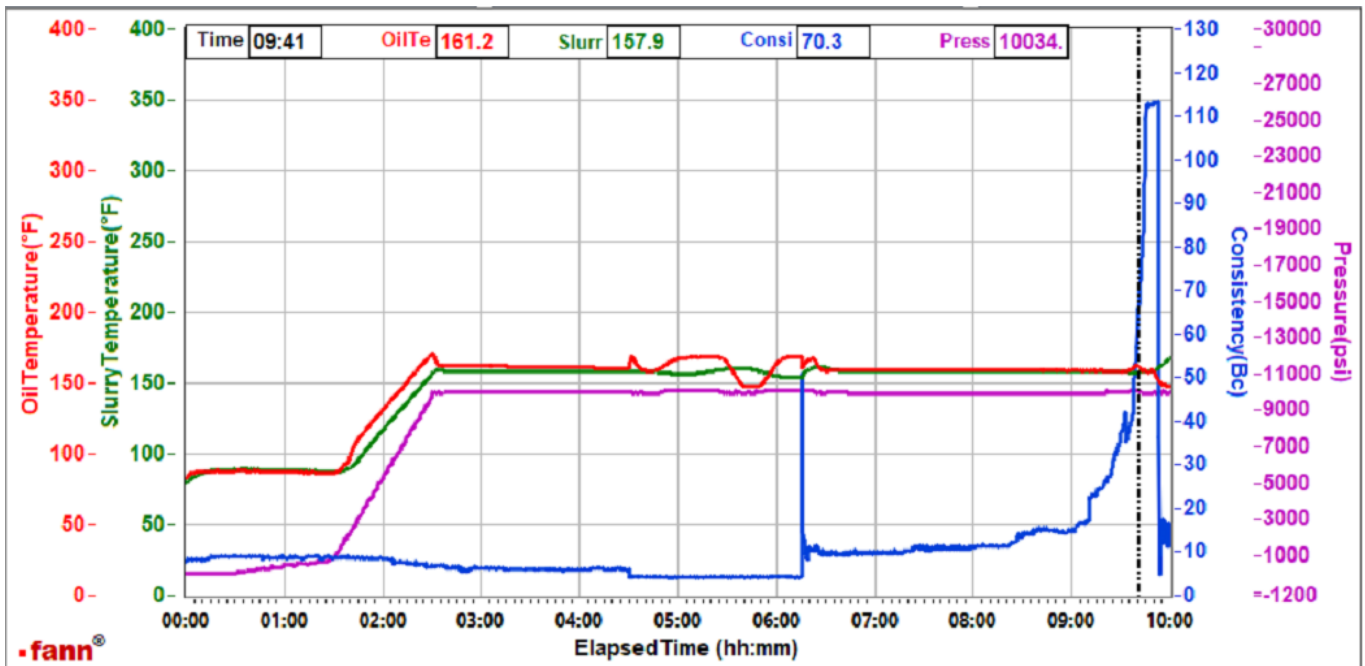


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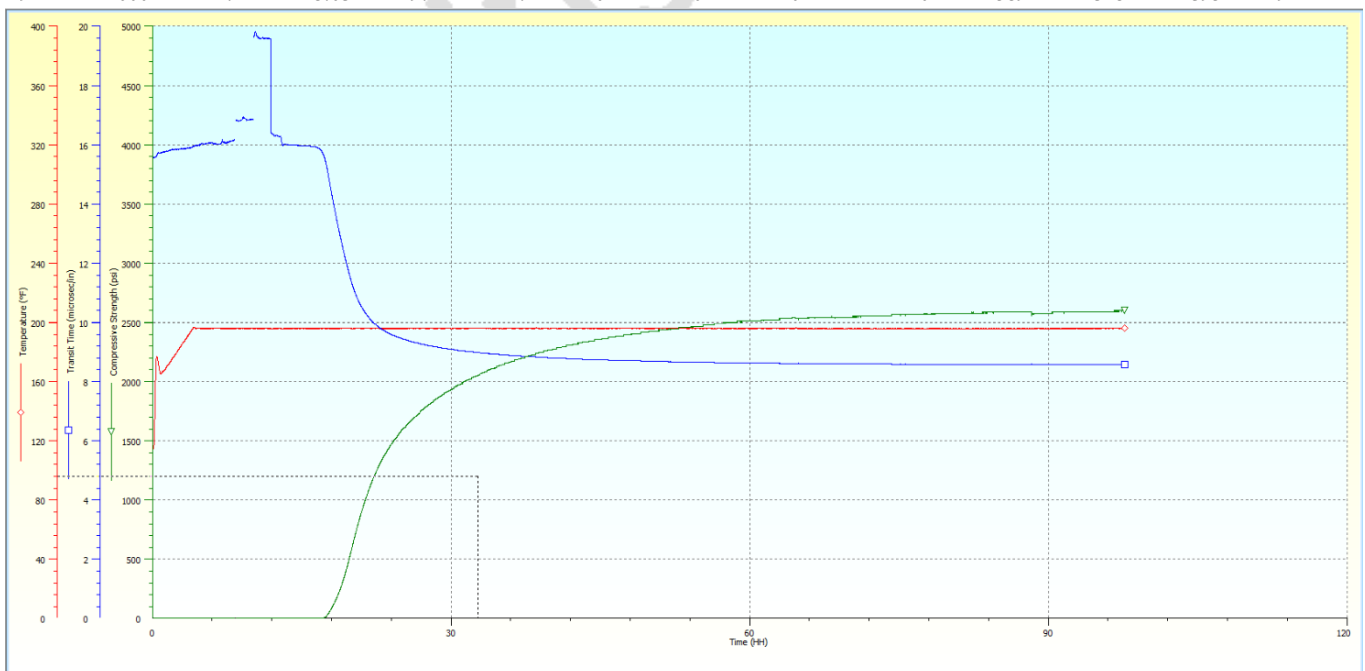
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Thickening Time - ON-OFF-ON, Request Test ID:38121025**13/APR/2021**

Test Temp (degF)	Pressure (psi)	Batch Mix (min)	Reached in (min)	70 Bc (hh:mm)	Start Bc	Stirring before stop (mins)	Static Period (min)	Termination time (hh:min)	Termination Bc
158	10000	90	60	9:41	8	270	105	13:23	13

**UCA Comp. Strength, Request Test ID:38114626****13/APR/2021**

End Temp (degF)	Pressure (psi)	50 psi (hh:mm)	100 psi (hh:mm)	500 psi (hh:mm)	1000 psi (hh:mm)	8 hr CS (psi)	12 hr CS (psi)	16 hr CS (psi)	24 hr CS (psi)	48 hr CS (psi)	72 hr CS (psi)	End CS (psi)	End Time (hrs)
194	4000	17:44	18:05	19:44	21:22	0	0	0	1470	2389	2548	2593	97



These are draft results and have not been approved for final use.

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HALLIBURTON

iCem[®] Service

**AMEREDEV OPERATING LLC-EBUS
INDEPENDENCE AGI/1 1ST STAGE BOM -
SO# 0907076771**

For: STEPHEN RITTER

Date: Friday, May 07, 2021

INDEPENDENCE AGI/1

Case 1

Job Date: Friday, May 07, 2021

Sincerely,

GUSTAVO GARZA

Legal Notice

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Customer: AMEREDEV OPERATING LLC-EBUS
 Job: INDEPENDENCE AGI/1 MULTIPLE STAGES BOM - SO# 0907076771
 Case: Case 1

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pump B Pressure (psi)	Dnwhole Density (ppg)	Cmb Pump Rate (bbl/min)	Cmb Stg Total (bbl)	Comments
Event	1	Call Out	Call Out	5/6/2021	08:00:00	USER					CALL OUT BY BRADLEY PRUETT FOR CITADEL 3 AMEREDEV OPERATING LLC-EBUS INDEPENDENCE AGI/1 MULTIPLE STAGES BOM - SO# 0907076771. JOB TIME @ 14:00 PM ON 5/6/2021.
Event	2	Depart Yard Safety Meeting	Depart Yard Safety Meeting	5/6/2021	10:00:00	USER					HELD SAFETY MEETING WITH HES EMPLOYEES.
Event	3	Depart Yard Safety Meeting	Depart from Service Center or Other Site	5/6/2021	10:30:00	USER					CREW DRIVE TO LOCATION.
Event	4	Arrive at Location from Service Center	Arrive at Location from Service Center	5/6/2021	13:00:00	USER					ARRIVED ON LOCATION.
Event	5	Assessment Of Location Safety Meeting	Assessment Of Location Safety Meeting	5/6/2021	13:10:00	USER					HELD SAFETY MEETING WITH HES EMPLOYEES.
Event	6	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/6/2021	13:15:00	USER					HELD TAILGATING MEETING.
Event	7	Rig-Up Equipment	Rig-Up Equipment	5/6/2021	13:20:00	USER					SPOT IN EQUIPMENT \\ RIG UP IRON \\ WATER LINES \\ BULK LINES.
Event	8	Comment	Comment	5/6/2021	13:30:00	USER					TDEPTH=16,135 FT \\ TPIPE= 16,129 FT \\ ST= 347 FT \\ OH= 8-1/2" \\ CASING 7" 32# P-110 \\ P/C= 9-5/8" 47 # SET AT 13,235 FT \\ DV-TOOL SET @ 13,508 FT.
Event	9	Rig-Up Completed	Rig-Up Completed	5/6/2021	15:30:00	USER					RIG UP COMPLETED.
Event	10	Casing on Bottom	Casing on Bottom	5/6/2021	18:00:00	USER					CASING ON BOTTOM. RIG

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Created: Friday, May 07, 2021

HALLIBURTON

Customer: AMEREDEV OPERATING LLC-EBUS
 Job: INDEPENDENCE AGI/1 MULTIPLE STAGES BOM - SO# 0907076771
 Case: Case 1

											HAD TO ROTATE AND WASH DOWN LAST JOINT OF CASING.
Event	11	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/6/2021	19:30:00	USER	5.83	8.35	0.00	34.95	HELD SAFETY MEETING WITH ALL PERSONNEL ON LOCATION.
Event	12	Start Job	Start Job	5/6/2021	21:54:42	NONE	141.24	8.32	0.00	34.95	START 1ST STAGE WITH FULL RETURNS.
Event	13	Test Lines	Test Lines	5/6/2021	21:57:46	NONE	540.04	8.33	0.00	35.85	TEST LINES WITH 500 PSI LOW \ 8000 PSI HIGH.
Event	14	Pump Spacer 1	PUMP TUNED DEFENSE	5/6/2021	22:25:29	NONE	416.79	8.32	0.00	0.00	PUMPED TUNED DEFENSE SPACER \ 20 BBLS \ 12.5 PPG \ 3.64 YLD \ 20.62 GAL- SKS. 3 BPM - 1140 PSI.
Event	15	Pump Lead Cement	Pump Lead Cement	5/6/2021	22:31:21	NONE	1213.84	13.28	4.05	0.03	PUMP 1ST LEAD \ 183 BBLS \ 715 SKS \ 13.2 PPG \ 1.44 YLD \ 7.24 GAL-SKS. 4 BPM - 960 PSI \ @ 120 BBLS GONE.
Event	16	Check Weight	Check Weight	5/6/2021	22:33:13	NONE	1389.30	13.56	3.97	7.57	
Event	17	Check Weight	Check Weight	5/6/2021	22:48:05	NONE	1136.07	13.21	4.02	67.06	
Event	18	Shutdown	Shutdown	5/6/2021	23:17:40	NONE	554.44	13.11	0.00	184.89	SHUTDOWN PUMPED ALL LEAD CEMENT.
Event	19	Drop Plug	Drop Plug	5/6/2021	23:17:54	NONE	345.28	13.09	0.00	184.89	DROP HSE DART PLUG.
Event	20	Pump Tail Cement	Pump Tail Cement	5/6/2021	23:20:46	NONE	12.47	13.08	0.00	0.00	PUMPED 1ST TAIL \ 42 BBLS \ 185 SKS \ 15.3 PPG \ 1.28 YLD \ 4.44 GAL-SKS. 4BPM - 940 PSI.
Event	21	Shutdown	Shutdown	5/6/2021	23:30:45	NONE	435.59	15.28	0.00	39.77	SHUT DOWN. PUMPED ALL TAIL CEMENT.
Event	22	Clean Lines	Clean Lines	5/6/2021	23:30:59	NONE	178.87	15.25	0.00	39.77	SWAP VALVES TO WASH PUMPS AND LINES TO OPEN TOP PIT.
Event	23	Drop Top Plug	Drop Top Plug	5/6/2021	23:36:21	NONE	6.39	8.00	0.00	54.14	DROP HSE SHUTOFF PLUG.

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Created: Friday, May 07, 2021

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Customer: AMEREDEV OPERATING LLC-EBUS
 Job: INDEPENDENCE AGI/1 MULTIPLE STAGES BOM - SO# 0907076771
 Case: Case 1

Event	24	Pump Displacement	Pump Displacement	5/6/2021	23:37:00	USER	237.15	8.00	8.00	3.06	PUMPED 569 BBLS OF FRESHWATER. 10 BBLS GONE INTO DISPLACEMENT REACH CEMENT. SLOW RATE 6 BPM - 1670 PSI. \
Event	25	Comment	Comment	5/7/2021	01:22:39	USER	4349.33	8.65	1.98	547.70	SHUT DOWN TO CORRECT LEAK ON PLUG CONTAINER. FINAL LIFT WAS 3800 PSI @ 2-BPM.
Event	26	Comment	Comment	5/7/2021	01:44:57	USER	3759.09	8.62	0.09	582.06	SHUT DOWN DUE TO HEAD LEAK. FIX PLUG CONTAINER. DUE TO DAMAGE FACE SEAL OF THE PLUG CONTAINER # 12435566 WAS TOOK OFF WELL HEAD. THERE WAS NO CASING SWAGE ON LOCATION TO CONTINUE PUMPING DISPLACEMENT. PUMP 553 BBLS OF TOTAL DISPLACEMENT. PER DSM AND CONTROL ROOM CALL IN FOR ANOTHER PLUG CONTAINER. ETA FOR NEW PLUG CONTAINER TO ARRIVE ON LOCATION WAS 04:00 AM ON 5/7/2021.
Event	27	Other	Other	5/7/2021	03:03:09	NONE	3.35	8.35	0.00	582.06	PER HSE ENGINEER JACOB LAUFER , HSE TOOL HAND JASON WELTON , CONTROL ROOM. MADE THE DECISION TO DROP OPENING DEVICE DUE TO LEAD SET TIME.
Event	28	Drop Opening Device For Multiple Stage Cementer	Drop Opening Device For Multiple Stage Cementer	5/7/2021	03:03:24	NONE	3.25	8.35	0.00	582.06	DROP OPENING DEVICE. WAIT 68 MINS FOR FREE FALL.
Event	29	Comment	Comment	5/7/2021	03:40:00	USER	2.81	8.35	0.00	582.06	PLUG CONTAINER ARRIVED ON LOCATION BY STACEY

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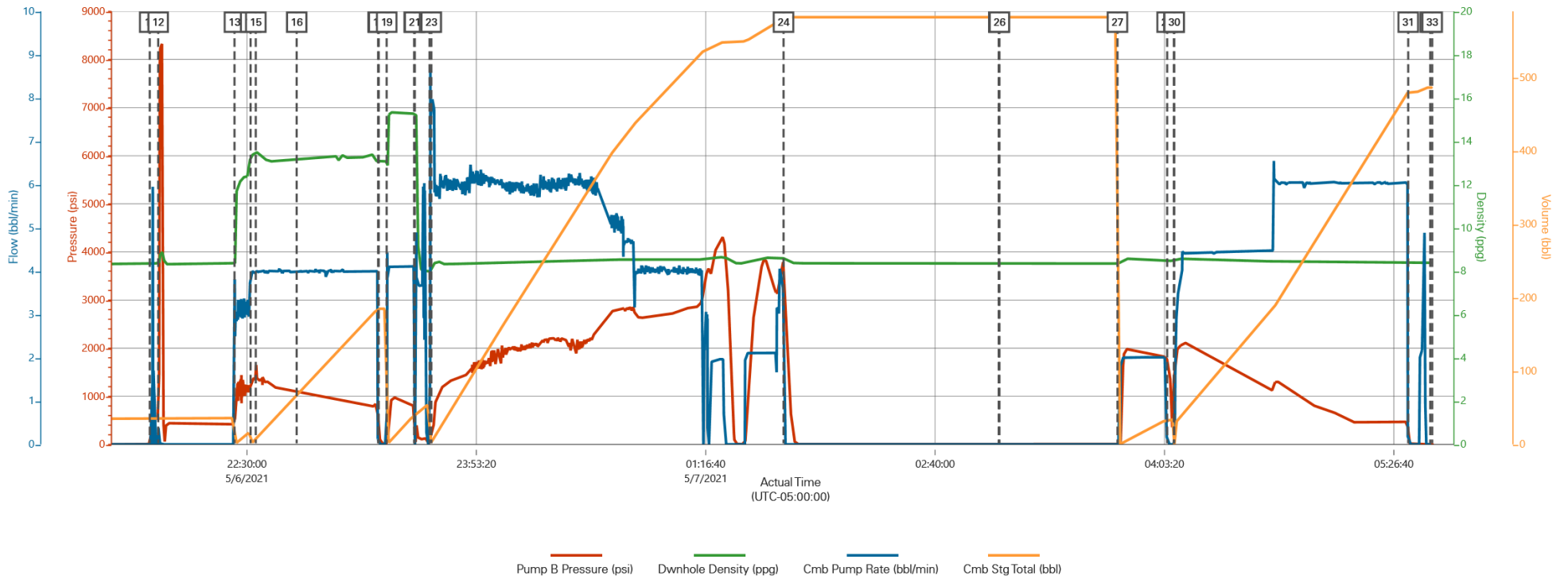
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Customer: AMEREDEV OPERATING LLC-EBUS
 Job: INDEPENDENCE AGI/1 MULTIPLE STAGES BOM - SO# 0907076771
 Case: Case 1

											TERRY.
Event	30	Pump Displacement	Pump Displacement	5/7/2021	03:46:16	NONE	5.00	8.35	0.00	0.00	PER CONTROL ROOM, TRIED TO PUMP ON WELL TO SEE IF HSE CAN LAND SHUTOFF PLUG. DID NOT WAIT FOR FREE FALL TO BE COMPLETED. RATE WAS 2 BPM - 1920 PSI. DID NOT SEE INDICATION OF LANDING PLUG OR IF PACKER WAS SET. PUMPED TOTAL OF 34 BBLS. FINAL LIFT 2 BPM - 1850 PSI.
Event	31	Shutdown	Shutdown	5/7/2021	04:04:19	NONE	1742.07	8.52	0.00	33.87	SHUT DOWN THE VERIFY DV-TOOL WAS OPEN. HAD FLOW BACK TO PUMP UNIT.
Event	32	Open Multiple Stage Cementer	Open Multiple Stage Cementer	5/7/2021	04:06:47	NONE	1379.66	8.51	0.00	33.87	OPEN DV-TOOL SUCCESSFULLY.
Event	33	Circulate Well	Circulate Well	5/7/2021	04:06:53	NONE	1440.47	8.51	0.00	0.00	HSE CIRCULATED BOTTOMS UPS TOTAL 355 BBLS OF FRESHWATER. 100 BBLS GONE -1700 PSI. \\ 200 BBLS GONE - 1300 PSI.
Event	34	Shutdown	Shutdown	5/7/2021	05:31:54	NONE	193.11	8.41	0.00	480.53	SHUTDOWN CIRCULATED 10 BBLS OF LEAD CEMENT TO SURFACE, 20 BBLS OF TUNED DEFENSE, 90 BBLS OF DIESEL.
Event	35	Pause	Pause	5/7/2021	05:39:54	NONE	-2.10	8.39	0.00	486.18	SWAP LINES TO RIG. CIRCULATING WELL TO WAIT ON CEMENT.
Event	36	End Job	End Job	5/7/2021	05:40:36	NONE	-2.23	8.39	0.00	486.18	END JOB FOR 1ST STAGE JOB. WAITING ON ORDERS FROM CUSTOMER.

CITADEL 3 AMEREDEV OPERATING LLC-EBUS INDEPENDENCE AGI/1 MULTIPLE STAGES BOM - SO# 0907076771 \ 1ST STAGE



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**AMEREDEV OPERATING LLC-EBUS
INDEPENDENCE AGI/1 MULTIPLE STAGES
BOM - SO# 0907076771 \\ 2ND STAGE**

For: STEPHEN RITTER

Date: Saturday, May 08, 2021

INDEPENDENCE AGI/1

2ND STAGE JOB Case 2

Job Date: Saturday, May 08, 2021

Sincerely,

GUSTAVO GARZA

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Customer: AMEREDEV OPERATING LLC-EBUS
 Job: INDEPENDENCE AGI/1 MULTIPLE STAGES BOM - SO# 0907076771
 Case: 2ND STAGE JOB Case 2

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Pump B Pressure (psi)	Dnwhole Density (ppg)	Cmb Pump Rate (bbl/min)	Cmb Stg Total (bbl)	Comments
Event	1	COMMENTS	Standby - Other - see comments	5/7/2021	16:30:00	USER					ADDITIONAL 385 SKS OF 2ND PRIMARY CMT WAS ORDERED. TOTAL OF 2185 SKS OF 2ND STAGE PRIMARY.
Event	2	Standby - Other - see comments	Standby - Other - see comments	5/7/2021	21:00:06	USER					HOT SHOT FOR ADDITIONAL 500 POUNDS OF SUGAR ARRIVED ON LOCATION.
Event	3	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/7/2021	23:40:00	USER					HELD SAFETY MEETING WITH ALL PERSONNEL ON LOCATION.
Event	4	Start Job	Start Job	5/8/2021	00:07:14	NONE	9.21	8.31	0.00	4.95	STARTED 2ND STAGE JOB WITH FULL RETURNS.
Event	5	Test Lines	Test Lines	5/8/2021	00:08:12	NONE	11.76	8.37	0.00	5.93	TEST LINES WITH LOW 500 PSI & HIGH 8000 PSI.
Event	6	Pump Spacer 1	Pump Spacer 1	5/8/2021	00:13:17	NONE	17.12	8.35	0.00	0.00	PUMPED TUNED DEFENSE SPACER \ 20 BBLS \ 12.5 PPG \ 3.64 YLD \ 20.62 GAL-SKS. 5 BPM - 367 PSI.
Event	7	Pump Cement	Pump Cement	5/8/2021	00:17:16	NONE	335.66	12.84	4.99	0.08	PUMP PRIMARY CEMENT \ 560 BBLS \ 2185 SKS \ 13.2 PPG \ 1..44 YLD \ 7.24 GAL-SKS. 5 BPM - 270 PSI. RETURNS SLOWED DOWN @ 370 BBLS GONE INTO CEMENT SLOW RATE @ 420 BBLS GONE TO 4 BPM - 200 PSI.
Event	8	Check Weight	Check Weight	5/8/2021	00:20:53	NONE	269.84	13.30	5.04	18.21	

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Customer: AMEREDEV OPERATING LLC-EBUS
 Job: INDEPENDENCE AGI/1 MULTIPLE STAGES BOM - SO# 0907076771
 Case: 2ND STAGE JOB Case 2

Event	9	Comment	Comment	5/8/2021	01:41:27	USER	239.21	13.33	3.97	419.78	LOST RETURNS 370 BBLS GONE INTO CEMENT, SLOWED RATE @ 420 BBLS TO 4 BPM- 200 PSI.
Event	10	Shutdown	Shutdown	5/8/2021	02:10:34	NONE	121.76	13.70	0.00	547.51	SHUT DOWN PLUMPED ALL CEMENT.
Event	11	Clean Lines	Clean Lines	5/8/2021	02:11:09	NONE	16.91	13.58	0.00	547.51	SWAP VALVES TO OPEN TOP TO WASH LINES.
Event	12	Drop Plug	Drop Plug	5/8/2021	02:15:13	NONE	38.26	8.23	0.00	559.63	DROP HES CLOSING PLUG.
Event	13	Pump Displacement	Pump Displacement	5/8/2021	02:15:27	NONE	24.41	8.22	0.00	0.00	PUMPED DISPLACEMENT 487 BBLS OF FRESHWATER. STARTED ONLINE @ 6 BPM - 154 PSI. DISPLACEMENT REACHED CMT @ 114 BBLS GONE.
Event	14	Bump Plug	Bump Plug	5/8/2021	03:45:23	NONE	6715.98	8.66	0.00	492.99	FINAL LIFT 5250 PPSI TO BUMP 6775 PSI.
Event	15	Close Multiple Stage Cementer	Close Multiple Stage Cementer	5/8/2021	03:45:27	NONE	6727.07	8.66	0.00	492.99	DV-TOOL CLOSED WITH 1500 PSI OVER.
Event	16	Check Floats	Check Floats	5/8/2021	03:46:32	NONE	6754.87	8.67	0.00	492.99	FLOW BACK 10 BBLS.
Event	17	End Job	End Job	5/8/2021	03:47:40	NONE	110.09	8.24	0.00	492.99	END JOB WITH FULL RETURNS. CIRCULATED 202 BBLS = 788 SKS OF CEMENT TO SURFACE.
Event	18	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	5/8/2021	03:50:00	USER					HELD SAFETY MEETING WITH HES EMPLOYEES
Event	19	Rig-Down Equipment	Rig-Down Equipment	5/8/2021	04:00:00	USER					RIG DOWN LINES.
Event	20	Rig-Down Completed	Rig-Down Completed	5/8/2021	05:15:00	USER					RIG DOWN COMPLETED.
Event	21	Paper Work	Paper Work	5/8/2021	06:00:00	USER					SUPERVISOR FINISHED PAPERWORK.
Event	22	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/8/2021	06:10:00	USER					HELD SAFETY MEETING WITH HES EMPLOYEES

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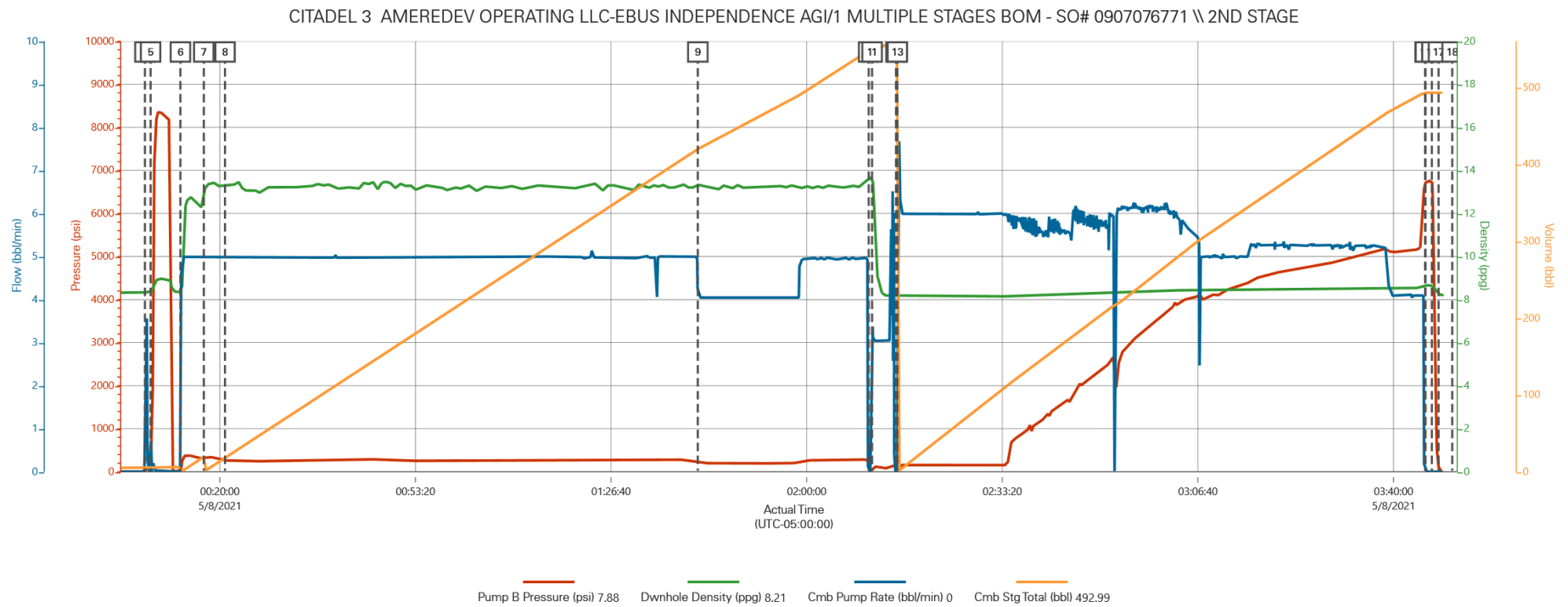
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Customer: AMEREDEV OPERATING LLC-EBUS
Job: INDEPENDENCE AGI/1 MULTIPLE STAGES BOM - SO# 0907076771
Case: 2ND STAGE JOB Case 2

Event 23 Depart Location Depart Location 5/8/2021 06:20:00 USER CREW LEAVE LOCATION.

2.2 Custom Graph



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(v. 5.1.101.0)

Created: Saturday, May 08, 2021



BOP TEST FORM

COMPANY Amecaden DATE 5/8/21
 LEASE Independence AGI #1 STATE NM COUNTY Loving
 DRILLING CONTRACTOR Citadel Rig #3 TESTER Brady Moore

TESTING DETAILS

Test Pressures

BOP 250/5000 Annular 250/3500 Casing — Pumps 250/5000 Manifold 250/5000

Test Equipment

Test Plug 7" plug Drill Pipe Size XT-39 Crossovers —

TEST #	ITEMS TESTED	LOW TEST		HIGH TEST		REMARKS
		PSI	MIN.	PSI	MIN.	
	Truck Test	250	10	5000	10	
1.	20, 21, 22, 23 + 24	250	10	5000	10	Mud pump 5" valves, Mudline valves, standpipe valve
2.	1, 6, 2	250	10	5000	10	Outside choke gate valves 3:20
3.	Choke Gate valves	250	10	5000	10	Choke gate valves 3:50pm
4.	26, 25	250	10	5000	10	Hydraulic choke valves 5:05pm
5.	Choke valves before ^{super} chokes	250	10	5000	10	Choke valves before super chokes
6.	13, 4, 5, 3, 9	250	10	5000	10	Blind Rams 7:45pm
7.	Lower Rams	250	10	5000	10	Lower Pipe Rams
8.	12, 10, 8	250	10	5000	10	Upper Rams, Inside kill, HCR
9.	12, 11, 7	250	10	5000	10	Upper Rams, Choke valve, 4" Manual
10.	15	250	10	3500	10	Annular
11.	18	250	10	5000	10	TIW
12.	19	250	10	5000	10	Inside Gray
13.	16	250	10	5000	10	Manual IBOP
14.	17	250	10	5000	10	Hydraulic IBOP

TEST ACCEPTED BY

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



PO Box 7
Lovington, NM 88260
(575) 942-9472

Company Amercedev Date 5/8/2021
Lease Independence AGI #1 County Loving County, NM
Drilling Contractor Litadel 3 Plug & Drill Pipe Size 7" plug & XT-39

Accumulator Function Test - OO&GO#2

To Check - USABLE FLUID IN THE NITROGEN BOTTLES (III.A.2.c.i. or ii or iii)

- Make sure all rams and annular are open, and if applicable, HCR is closed.
 - Ensure accumulator is pumped up to working pressure! (Shut off all pumps)
1. Open HCR Valve. (If applicable)
 2. Close annular.
 3. Close all pipe rams.
 4. Open one set of the pipe rams to simulate closing the blind ram.
 5. For 3 ram stacks, open the annular to achieve the 50+ % safety factor. (5M and greater systems).
 6. Record remaining pressure 1,750 psi. Test Fails if pressure is lower than required.
- a. {950 psi for a 1500 psi system} b. {1200 psi for a 2000 & 3000 psi system}
 - 7. If annular is closed, open it at this time and close HCR.

To Check - PRECHARGE ON BOTTLES OR SPHERICAL (III.A.2.d.)

- Start with manifold pressure at, or above, maximum acceptable pre-charge pressure:
 - a. {800 psi for a 1500 psi system} b. {1100 psi for 2000 and 3000 psi system}
1. Open bleed line to the tank, slowly. (Gauge needle will drop at the lowest bottle pressure)
 2. Close bleed line. Barely bump electric pump and see what pressure the needle jumps up to.
 3. Record pressure drop 1,100 psi. Test fails if pressure drops below minimum.
- Minimum: a. {700 psi for a 1500 psi system} b. {900 psi for a 2000 & 3000 psi system}

To Check - THE CAPACITY OF THE ACCUMULATOR PUMPS (III.A.2.f.)

- Isolate the accumulator bottles or spherical from the pumps & manifold.
 - Open the bleed off valve to the tank, {manifold psi should go to 0 psi}, close bleed valve.
1. Open the HCR valve, {if applicable}
 2. Close annular.
 3. With pumps only, time how long it takes to regain the required manifold pressure.
 4. Record elapsed time 1 minute. Test fails if it takes over 2 minutes.
- a. {950 psi for a 1500 psi system} b. {1200 psi for a 2000 & 3000 psi system}



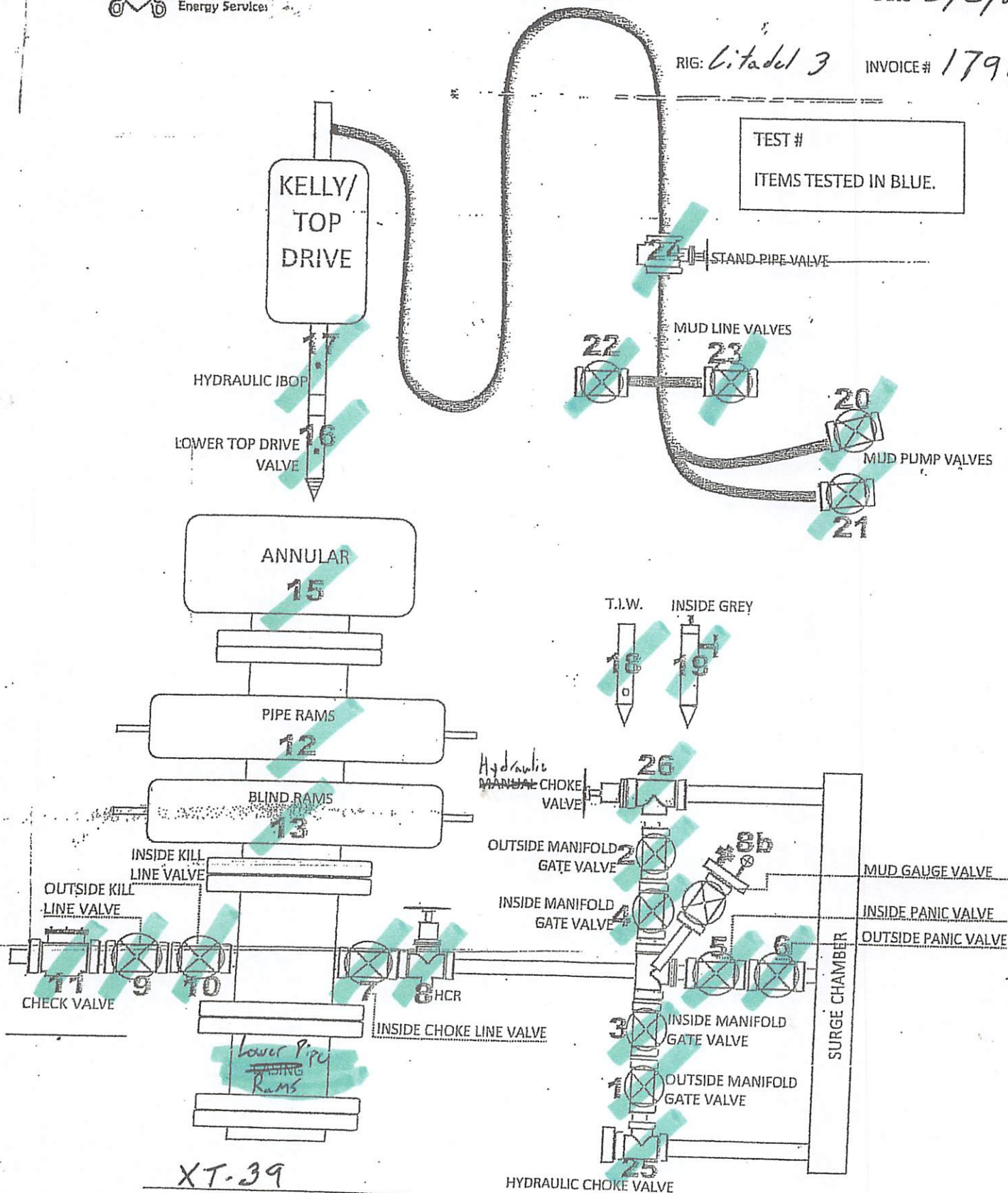
BOP Test Diagram

Date 5/8/21

RIG: Citadel 3

INVOICE # 17981

TEST #
ITEMS TESTED IN BLUE.



XT-39

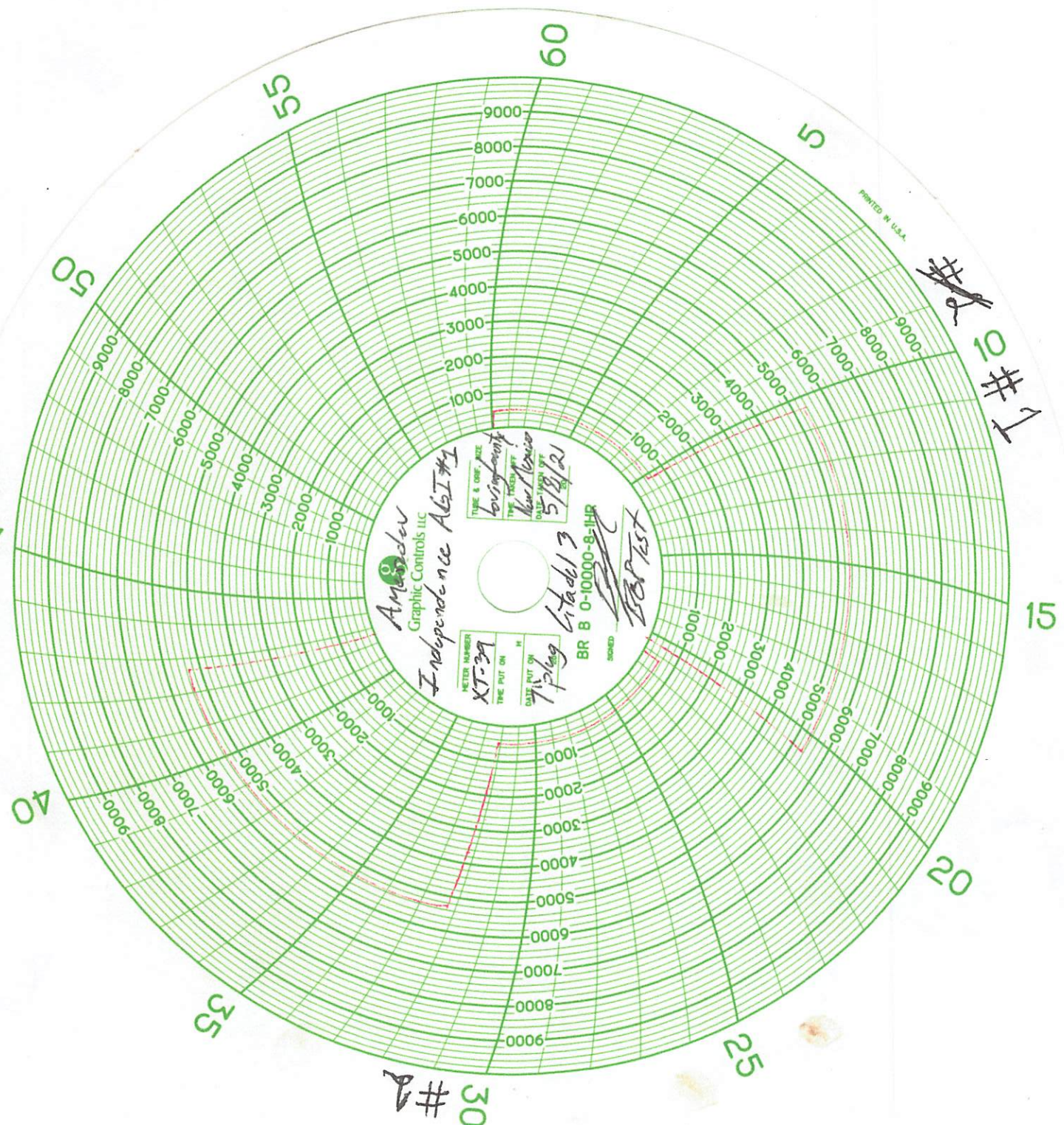
DRILL PIPE & TYPE

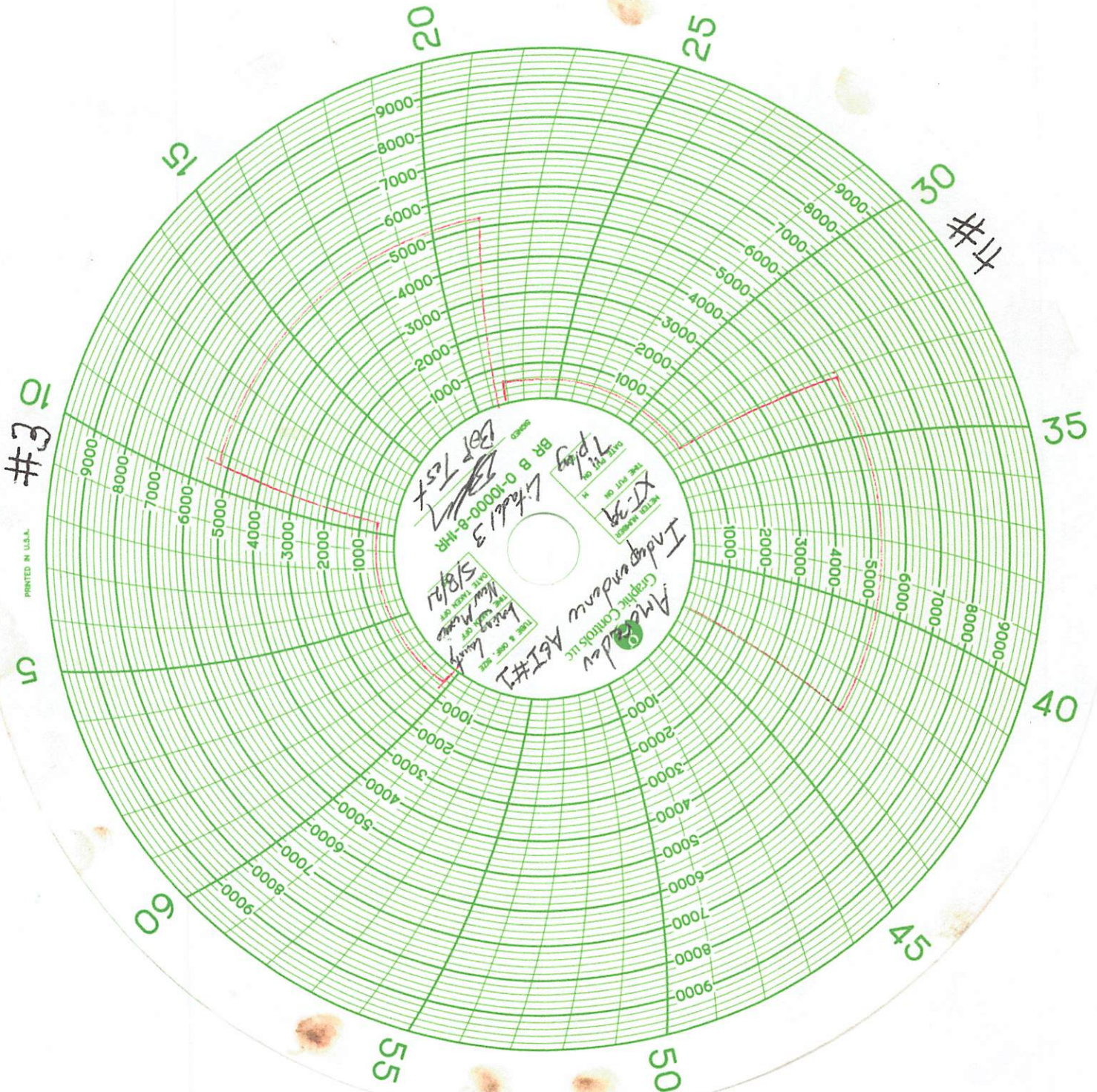
7" plug

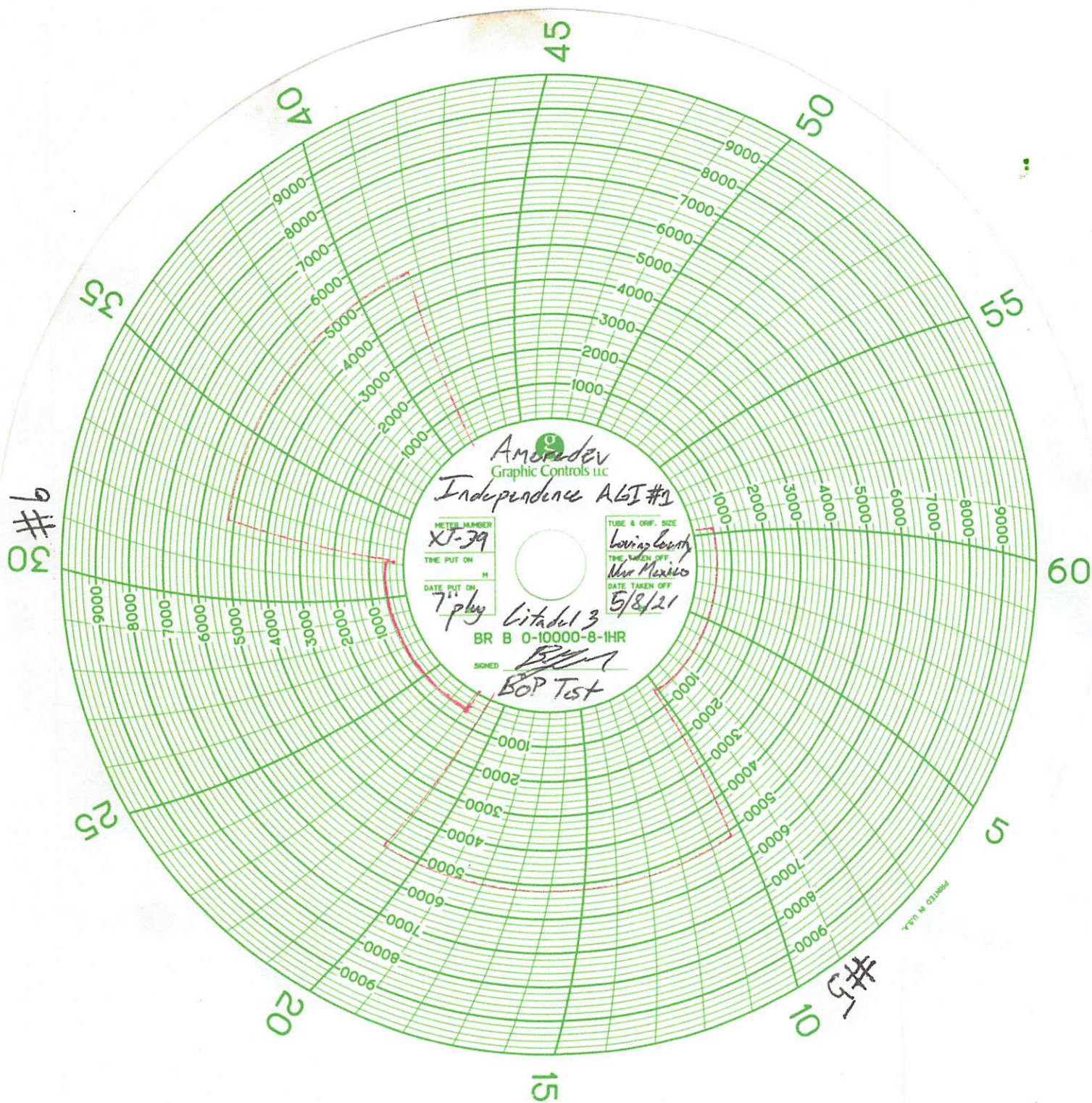
PLUG/ROP SIZE AND TYPE

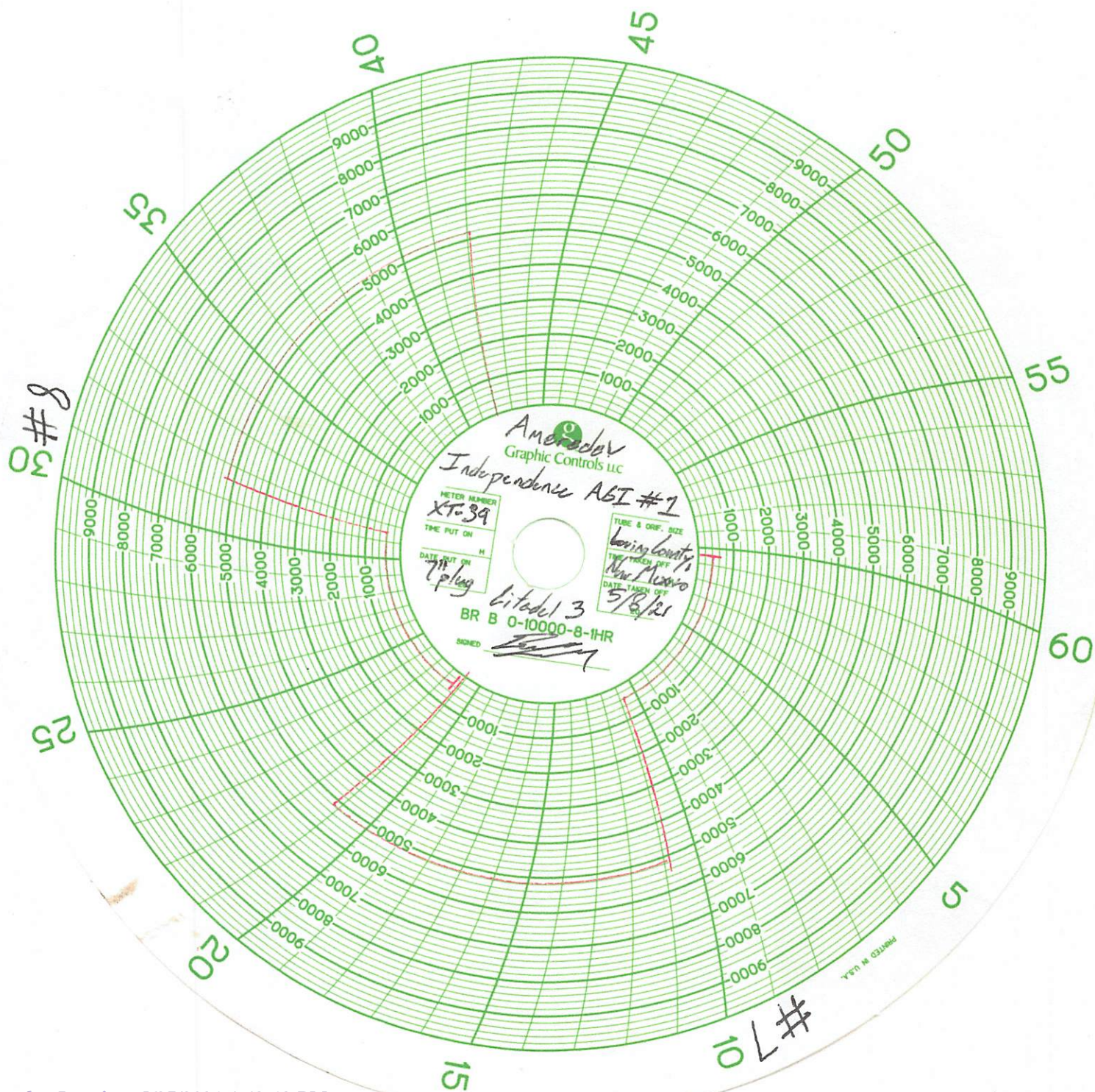
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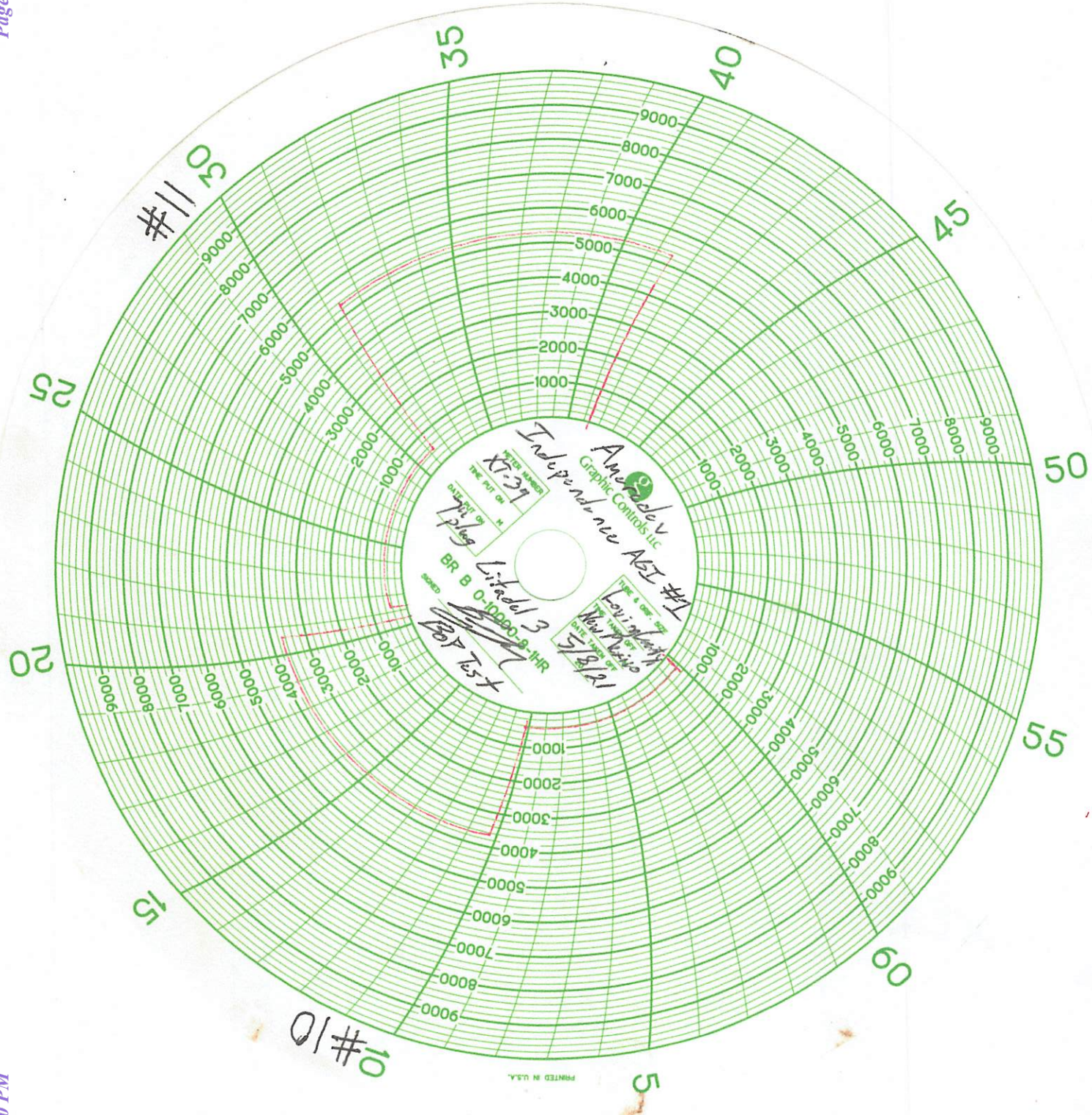


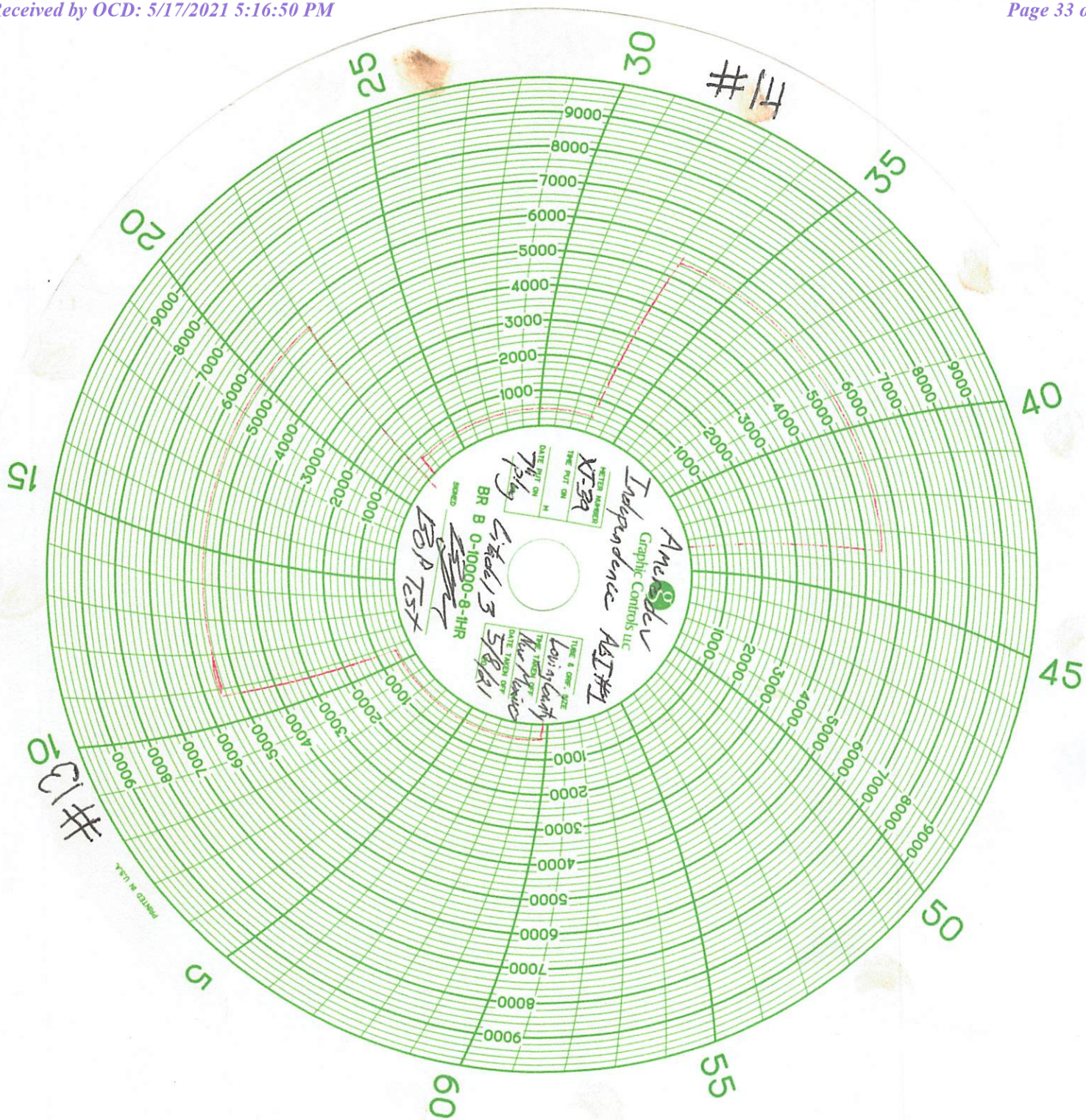




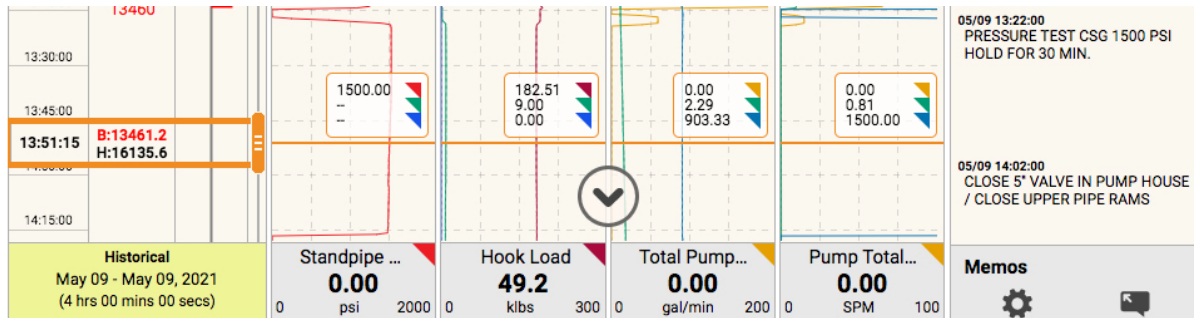




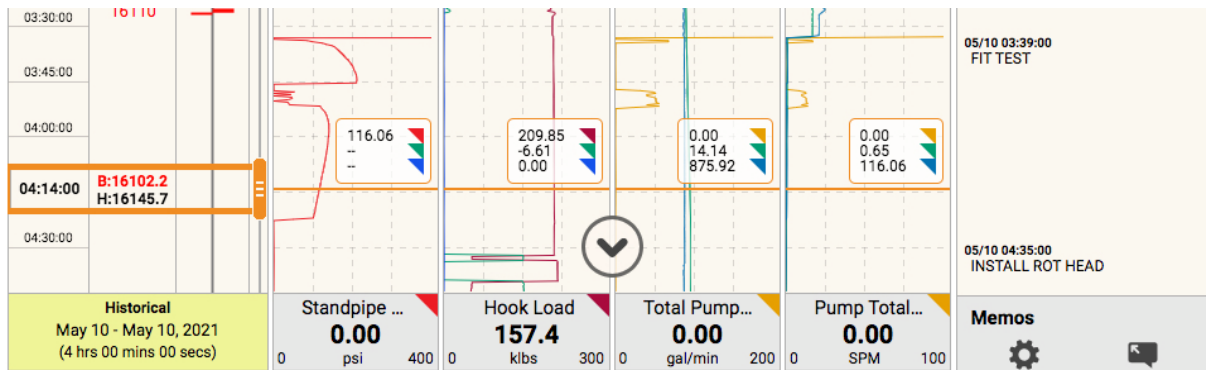




Casing Test and FIT following the installation of the Production Casing (7-inch)



Casing Test: Prior to drilling out the DV Tool

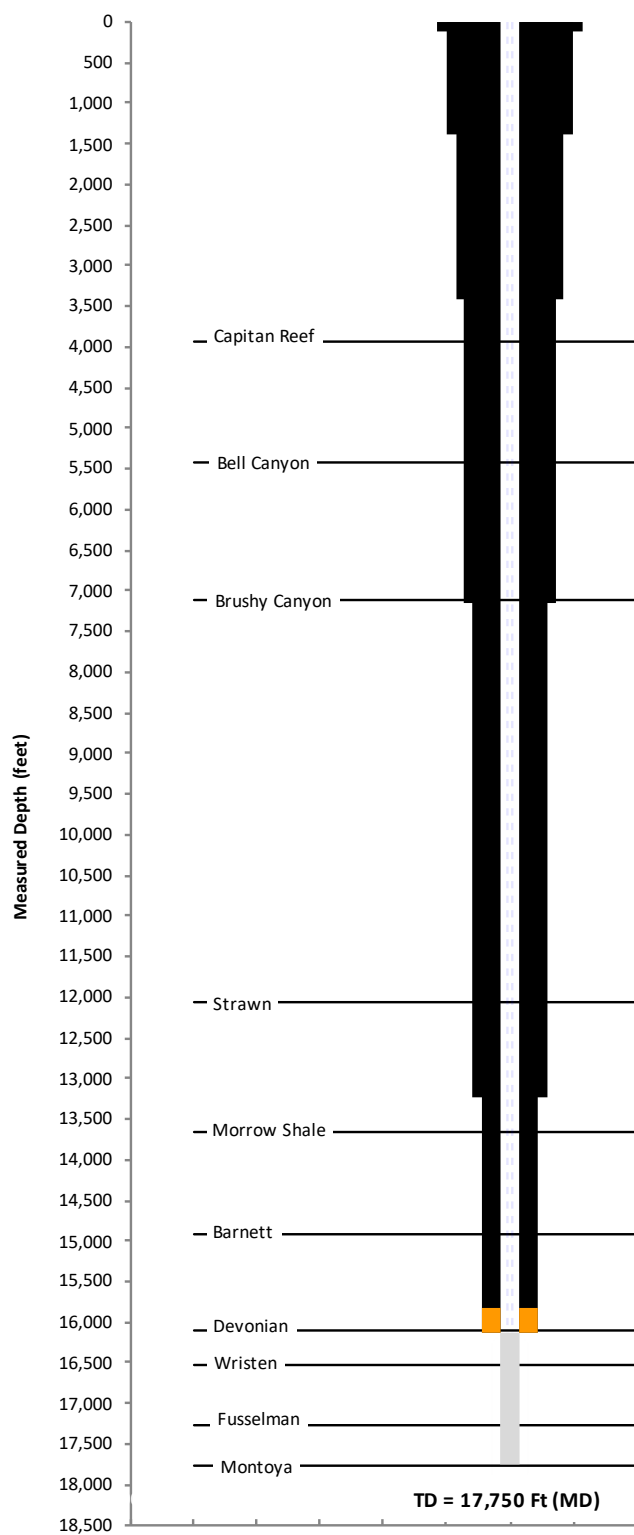


Formation Integrity Test: Following the drilling of 16 feet of formation below casing shoe

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/ECP 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

DV/ECP in 7-in casing at 13,508 ft

Cement Plug in Original Borehole: 890 sx of Class H from 13,348 to 14,177 ft

12 Sidewall Cores recovered from 15,730 to 16,075 ft

PRODUCTION CASING:

7-inch, HCP110, 32 lb/ft, VARN, casing at 0-15,825 ft in 8 1/2-in hole, cmt to surf (788 sx)
7-inch, G3-110 CRA, 32 lb/ft, VAM TOPHC, casing at 15,825-16,129 ft in 8 1/2-in hole

OPEN HOLE = 16,129 - 17,750 Ft (5 7/8-inch)

Location at Total Depth: Section 20, T-25-S, R-36-E, Lea Co., New Mexico
1041' FNL & 1785' FWL, TVD is 41.25' < MD at TD

AMEREDEV

Independence AGI #1

Plate 1

Wellbore Completion Schematic

May 17, 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
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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 28514

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 28514
	Action Type: [C-103] Sub. Drilling (C-103N)

CONDITIONS

Created By	Condition	Condition Date
pgoetze	None	5/27/2021