



PLUG MILLING DATA

TUBING CONVEYED DRILL OUT

DATE	WELL	# PLUGS	TMD (FT)	WORK STRING	CASING	PLUG TYPE	MOTOR TYPE	MILL TYPE	DRILLOUT TIME (HR:MIN)	# MILLS	# FAILS	AVG RATE (BPM)	LOWEST PRESS (PSI)	HIGHEST PRESS (PSI)
11/29/21-12/01/21	5-39-MS #1H	86	22,650	2.375" & 2.875"	5.5" 20#	Innovex Tom Cat	Graco 3.125"	Varel SlipXtreme	60:00:00	1	0	4	2,400	4,000
11/27/21-12/01/21	5-39-LS #4H	86	22,810	2.375" & 2.875"	5.5" 20#	Innovex Tom Cat	Graco 3.125"	Varel SlipXtreme	70:40:00	1	0	4	3,000	4,800
12/03/21-12/05/21	5-39-LS-#5H	86	22,765	2.375" & 2.875"	5.5" 20#	Innovex Tom Cat	Graco 3.125"	Varel SlipXtreme	54:15:00	1	0	4	3,000	4,800
12/04/21-12/08/21	5-39-MS #2H	87	22,217	2.375" & 2.875"	5.5" 20#	Innovex Tom Cat	Graco 3.125"	Varel SlipXtreme	59:45:00	1	0	4	2,200	3.4
12/07/21-12/10/21	5-39-LS-#6H	86	22,600	2.375" & 2.875"	5.5" 20#	Innovex Tom Cat	Graco 3.125"	Varel SlipXtreme	52:00:00	1	0	4	2,800	4,600
12/09/21-12/12/21	5-39-MS-#3H	86	22,500	2.375" & 2.875"	5.5" 20#	Innovex Tom Cat	Graco 3.125"	Varel SlipXtreme	61:15:00	1	0	4	2,400	4,000
04/15/22-04/19/22	Elkin Estes 34H_8H	80	24,027	2.375" & 2.875"	5.5" 20#		Graco 3.125"	Varel SlipXtreme	81:10:00	1	0	4	1,600	5,500
04/15/22-4/19/22	Elkin Estes 34H_11H	81	24,273	2.375" & 2.875"	5.5" 20#		Graco 3.125"	Varel SlipXtreme	57:09:00	1	0	4.5	2,500	5,700
04/20/22-4/24/22	Elkin Estes 34I_9H	81	24,390	2.375" & 2.875"	5.5" 20#		Graco 3.125"	Varel SlipXtreme	57:43:00	1	0	4	1,900	4,800
04/20/22-4/24/22	Elkin Estes 34L_12H	81	24,748	2.375" & 2.875"	5.5" 20#		Graco 3.125"	Varel SlipXtreme	82:05:00	1	0	4	2,770	5,800
04/25/22-4/28/22	Elkin Estes 34J_10H	82	24,931	2.375" & 2.875"	5.5" 20#		Graco 3.125"	Varel SlipXtreme	74:25:00	1	0	4.5	2,600	5,769
04/25/22-4/28/22	Elkin Estes 34G_7H	82	24,870	2.375" & 2.875"	5.5" 20#		Graco 3.125"	Varel SlipXtreme	79:35:00	1	0	4.5	1,200	4,300
07/07/22-07/11/22	North Brooke 38-37 ED 102H	81	25,461	2.375" & 2.875"	5.5" 20#		Graco 3.125"	Varel SlipXtreme	88:45:00	1	0	4.4	500	1,300
04/29/22-05/04/22	5-39 W#10H	86	22,710	2.375" & 2.875"	5.5" 20#		Graco 3.125"	Varel SlipXtreme	100:00:00	2	0	4	3,200	4,200



PLUG MILLING DATA

COIL TUBING CONVEYED DRILL OUT

DATE	WELL	# PLUGS	TMD (FT)	WORK STRING	CASING	PLUG TYPE	MOTOR TYPE	MILL TYPE	DRILLOUT TIME (HR:MIN)	# MILLS	# FAILS	AVG RATE (BPM)	LOWEST PRESS (PSI)	HIGHEST PRESS (PSI)
07/05/22 - 07/06/22	EL KABONG 705H	45	21,302	2.375" Coil	5.5" 20#	Fracxion / InnOvex D	Graco 3.125"	JZ Bit	45:30:00	1	0	4.5	7,350	7,800
6/29/2022	Gunpowder 705H	34	19,371	2.375" Coil	5.5" 20#		Graco 3.125"	JZ Bit	21:25:00	1	0	4.5	6,600	6,900
6/21/22 - 6/22/22	Jolly Jumper 704H	33	18,760	2.375" Coil	5.5" 20#		Graco 3.125"	JZ Bit	19:30:00	1	0	4.3	5,000	5,900
07/01/22 - 07/09/22	Silver 701H	34	19,505	2.375" Coil	5.5" 20# / 5" 18#		Graco 2.88"	JZ Bit	25:00:00	1	0	4	7,100	7,800
6/30/22 - 07/05/22	Silver 702H	43	21,348	2.375" Coil	5.5" 20# / 5" 18#		Graco 2.88"	JZ Bit	46:20:00	1	0	4	6,500	7,400
07/07/22 - 07/08/22	Silver 703H	45	21,570	2.375" Coil	5.5" 20#		Graco 3.125"	JZ Bit	56:00:00	1	0	4.5	7,040	8,000

PERMIAN SERVICE CONTACTS:

MANAGER

Curtis Gibson
(432) 238-9470

Tony Attaway
(903) 941-8881

Drew Berryman
(970) 305-7197

Chris Daly
(337) 852-6009

SALES

Terry Wells
(432) 634-8685

Jonathan Apple
(406) 599-3285

Nathan Grube
(580) 660-1242

SHOP COORDINATOR

Marcos Ibarra
(432) 634-8328

Ryan Petteway
(318) 272-9648

Colt Martin
(940) 445-0814

SHOP TECH

Allen Wilson
(432) 999-3263

Tyler Ottem
(720) 388-3488

Marcos Villa
(361) 300-2696



THRU TUBING FISHING AND MILLING SERVICES

MUD MOTORS

1.69 – 3.125” OD

TOOL SIZES

1.38 – 3.125” Tool Strings

JOB CAPABILITIES

- Drill outs and Cleanouts on Coil or Tubing
- Fishing utilizing any conveyance method
- Junk Retrieval (Bands etc.)
- Underreaming

SHOP CAPABILITIES

- 24/7 in-house carbide application and machine shop support
- Dyno and Torque machines to exceed industry standards

AVERAGE MILLING TIMES

- Stick Pipe: 8 mins/plug
- Coil Tubing: 2 mins/plug



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