

CPS Treatment Report Step Rate Test

Page 1

Customer:	3 BEAR OPER.	ESU#:	BOJSAZSTG
Well Name & No.:	EUNICE SWD Libby Berry Fee SWD #1	Formation:	DEVONIAN
County:	LEA	Date:	June 9, 2018
State:	NM	Well type:	Oil / Old / Stim.

Customer Information

Address:	1512 LARIMER ST. SUIT 540
City, State:	DENVER COLO.
Zip Code:	80202
Customer Representative:	PHILIPS WHITE



STEP RATE

Remarks

USE BUDDY SYSTEM WATCH EVERYONES BACK

40,000 GALS 20 % WITH 16,000 LBS ROCK SALT

TITRATED 20.3 % 4:22 AM 6-01-2018

Arrive on Location: 5:30 AM

Depart Location: 7:30 PM

Total Hours: 14.00

	Depth	O.D	Weight	I.D	Volume	Bbls/linear ft.
Tubing 1 length ft.:	4,717		12.7	3.958	71.78 BBLs.	0.01522
Tubing 2 length ft.:					458.00 BBLs.	0.00000
Casing 1 length ft.:	12,000	7	26.00		168.97 BBLs.	0.02320
Casing 2 length ft.:					0.00 BBLs.	0.00000
Open Hole length ft.:		N/A	N/A		0.00 BBLs.	0.00000
Combined Depth ft.:	12,000				BBLs.	0.00000
				Annular Vol.:		

	Depth	Vol.				
Top Perf/Open Hole:	12,000	240.75	Maximum Pressure:	3037	ISIP:	457
Bottom Perf/Open Hole:	16,000	791.55	Average Pressure:	1573	5 min:	342
Number of Perfs:	0		Maximum Rate:	22.4	10 min:	274
Perf Size:	0.31	in.	Average Rate:	12.8	15 min:	91
Packer Depth:	4,717	ft.	Fluid to Recover:	4950	Proppant Total:	16,000

6/1/2018 6:00	TUBING	CASING	RATE	Total	
2:20:08 PM	844	383	3.0	0.0	START STEP RATE
2:25:47 PM	639	458.0	3.0	15.0	PSI CHECK
2:28:57 PM	571	504.0	3.0	24.0	PSI CHECK
2:32:27 PM	525	527.0	3.0	39.0	PSI CHECK
2:35:17 PM	479	527.0	3.0	45.0	15 MIN
2:40:13 PM	434	504.0	3.0	60.0	20 MIN
2:45:11 PM	365	504.0	3.0	75.0	25 MIN
2:50:17 PM	320	491.0	3.0	90.0	30 MIN INCREASE RATE
2:51:26 PM	434	481.0	6.0	95.0	6 BBLs PER MIN
2:56:27 PM	411	481.0	6.0	30.0	5 MIN
3:01:07 PM	365	458.0	6.0	60.0	10 MIN
3:06:18 PM	320	436.0	6.0	90.0	15 MIN
3:11:10 PM	274	389.0	6.0	120.0	20 MIN
3:16:18 PM	228	389.0	6.0	150.0	25 MIN
3:21:15 PM	205	366.0	6.0	180.0	30 MIN
3:22:22 PM	342	389.0	9.0	0.0	STEP UP TO 9 BPM
3:27:22 PM	479	412.0	9.0	45.0	5 MIN
3:32:31 PM	502	435.0	9.0	90.0	10 MIN
3:37:23 PM	502	435.0	9.0	135.0	15 MIN
3:42:33 PM	525	435.0	9.0	180.0	20 MIN
3:47:13 PM	525	458.0	9.0	225.0	25 MIN
3:52:07 PM	525	458.0	9.0	270.0	30 MIN
3:52:56 PM	868	481.0	12.0	0.0	INCREASE RATE
3:57:44 PM	890	527.0	12.0	60.0	5 MIN
4:02:59 PM	890	550.0	12.0	120.0	10 MIN
4:07:46 PM	936	573.0	12.0	180.0	15 MIN
4:12:42 PM	936	595.0	12.0	240.0	20 MIN
4:17:09 PM	959	595.0	12.0	300.0	25 MIN
4:22:54 PM	959	618.0	12.0	360.0	30 MIN
4:24:04 PM	1347	641.0	15.0	0.0	INCREASE RATE
4:29:39 PM	1416	710.0	15.0	75.0	5 MIN
4:34:37 PM	1438	733.0	15.0	150.0	10 MIN

3 BEAR DELAWARE OPERATING NMN
LLC

EUNICE SWD

6-01-2018

Four Axes Chart

