



Goodnight Midstream

Ryno(formerly Snyder) SWD #1

4/27/2020

Re Completion Procedure

API# 30-025-43901

1450' FNL & 708' FEL, Unit H of Sec 17, T21S, R36E, NMPM, Lea County, NM,

Lat. 32.482144 / Long. -103.281233

Lea County, New Mexico

Directions to Ryno SWD #1:

From Eunice, NM go west on Hwy 8 to Hwy 176, turn left and go West about 1 mile and turn right on dirt road go about 3/4 mile north and turn right onto marked dirt road and go east about 1/4 mile to the rig.

Speed limit on dirt roads is 15 mph

Ryno SWD #1 is a Lea County commercial disposal drilled to 11,500' with 7 inch casing set at 10556'. The injection interval is 10556-11500 feet. The well was drilled with 3 pipe strings, surface casing being at 1348' and intermediate casing set at 5893'. The well was completed open hole and was stimulated with 40,000 gal 15% HCL . A CBL was run on the long string to record cement quality in the well. 4 ½" = 11.6 #/ft L80 fiberglass lined cemented tubing with LTC threads will be used for an injection string along with a Stainless steel (WET AREA) Permapack PACKER WITH A 2.81 F nipple and 2.75 R-nipple. The well will now be recompleted as a San Andres disposal between 4320-5625 with perforations from 4380'-5560'.

TOTAL DEPTH: 11500'

PBTD: 5700'

KB: 2907' 23' AGL

GL: 3606.3'

CASING:

20" 94# conductor @ 120'

13 3/8" Surface casing @1348'

9 5/8" 40# HCL 80 Intermediate csg @ 5893' Cem to surface

7" 26# HCL 80 @ 10556" Cement Circulated

Completion Procedure

- Inspect location for hazards prior to MIRU
- Rent and have delivered 10,500' 2 7/8" L80 8rd tubing and pipe racks.
- Set 5 frac tanks and load 1w/ brine water and 5 frac tank with fresh water



- 1 Acid tanks loaded w/??? bbls fresh water (consult with acid company)

- 1) MIRU WSU
- 2) MIRU Reverse Unit. NU and test BOPs
- 3) Release Anchor Latch seal assembly from permapak Packer POOH LD 4 ½ injection tubing
- 4) Have NOV inspect tubing for re run
- 5) RU Wireline Run G-Ring to 10510' get on depth with DV tool 7938 and casing collar at 10461'
- 6) Run CIBP and set 10510'
- 7) TIH to 10510 tag plug spot 25 sx cem on CIBP
- 8) Pull tubing to 8000' spot 25 sx cement
- 9) Pull 3 stands circ clean WOC Tag
- 10) Pull tubing to 6020' spot 85 sx cement
- 11) Pull tubing to 5625 Reverse clean
- 12) Pull 3 stands circ clean WOC Tag
- 13) POOH
- 14) Perforate the following intervals:

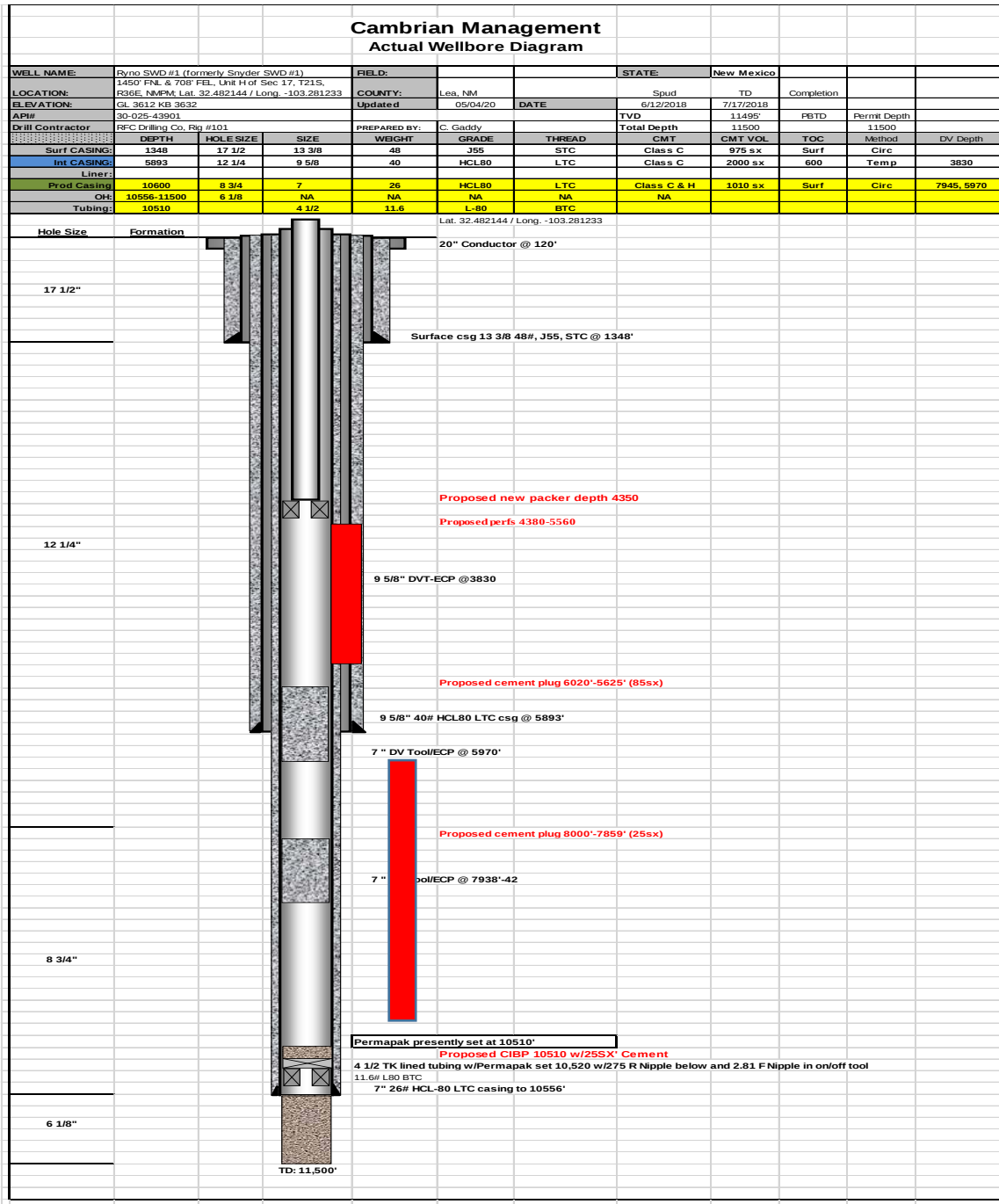
Perf and Acid Detail

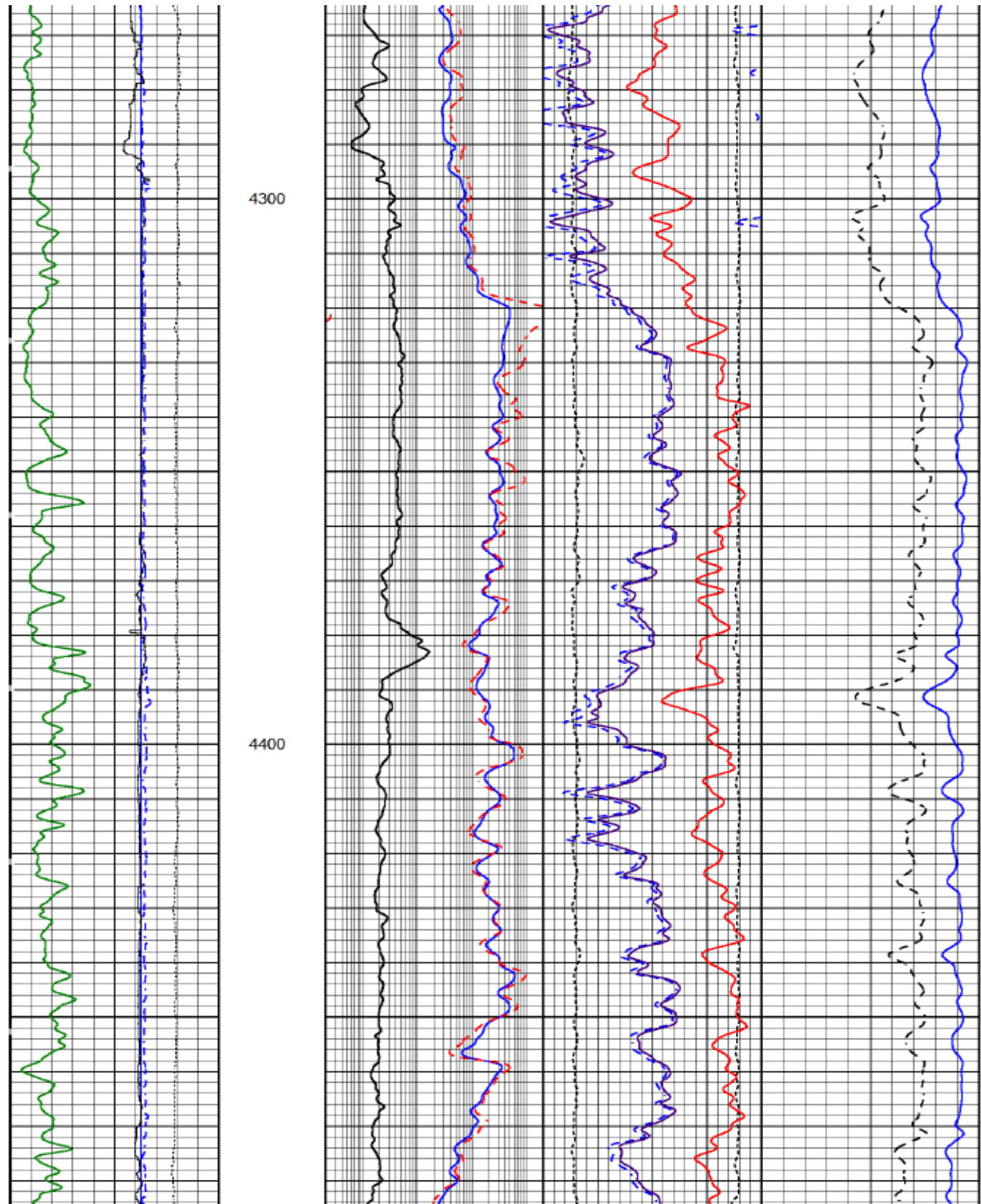
Top	Bottom	feet	holes	PKR	RBP	gal	BBLs
5540	5560	20	80	5450	5600	1000	23.8
5426	5446	20	80	5400	5470	1000	23.8
5316	5336	20	80	5000	5360	6000	142.9
5263	5283	20	80				
5225	5245	20	80				
5160	5180	20	80				
5074	5094	20	80				
5028	5048	20	80				
4930	4950	20	80	4900	4980	1000	23.8
4745	4765	20	80				
4780	4800	20	80	4700	4830	2000	47.6
4638	4658	20	80	4600	4690	1000	23.8
4566	4586	20	80	4530	4600	1000	23.8
4380	4420	40	160	4350	4450	2000	47.6
		300	1200			15000	357.1

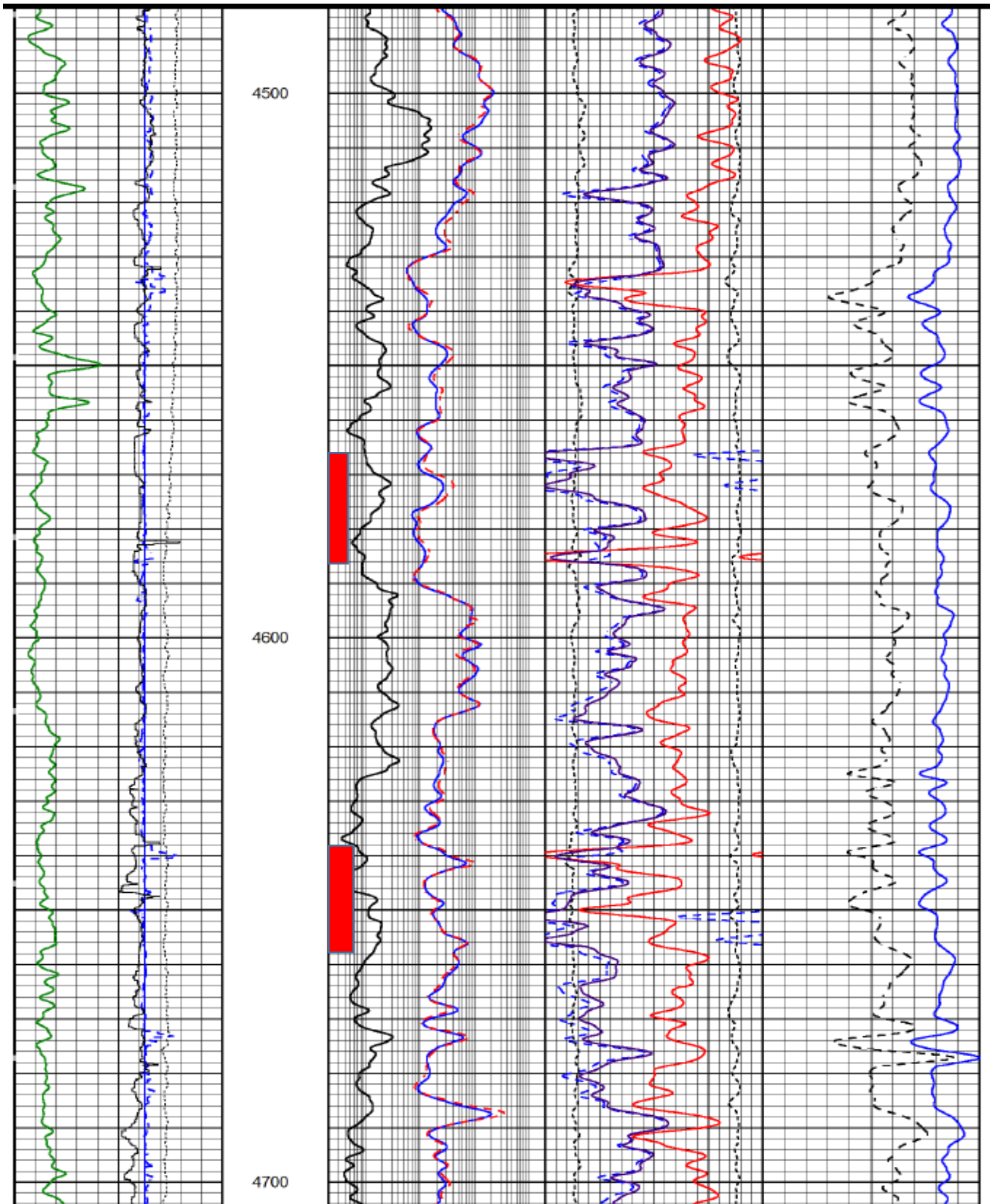
- 15) PU PKR and RBP Test in hole on WS to 5000 psi to 4200' Install string float and stripping head. Continue in hole to 5600' set RBP. Pull PKR to 5450 and set. Break dn perfs pumping 5 bbls/min ramping to 3000 psi., pump 2000 gal (47.6 bbls) at 42.6 bbls pump 5 bbls as fresh water spacer at end of each acid job (as safety spacer)

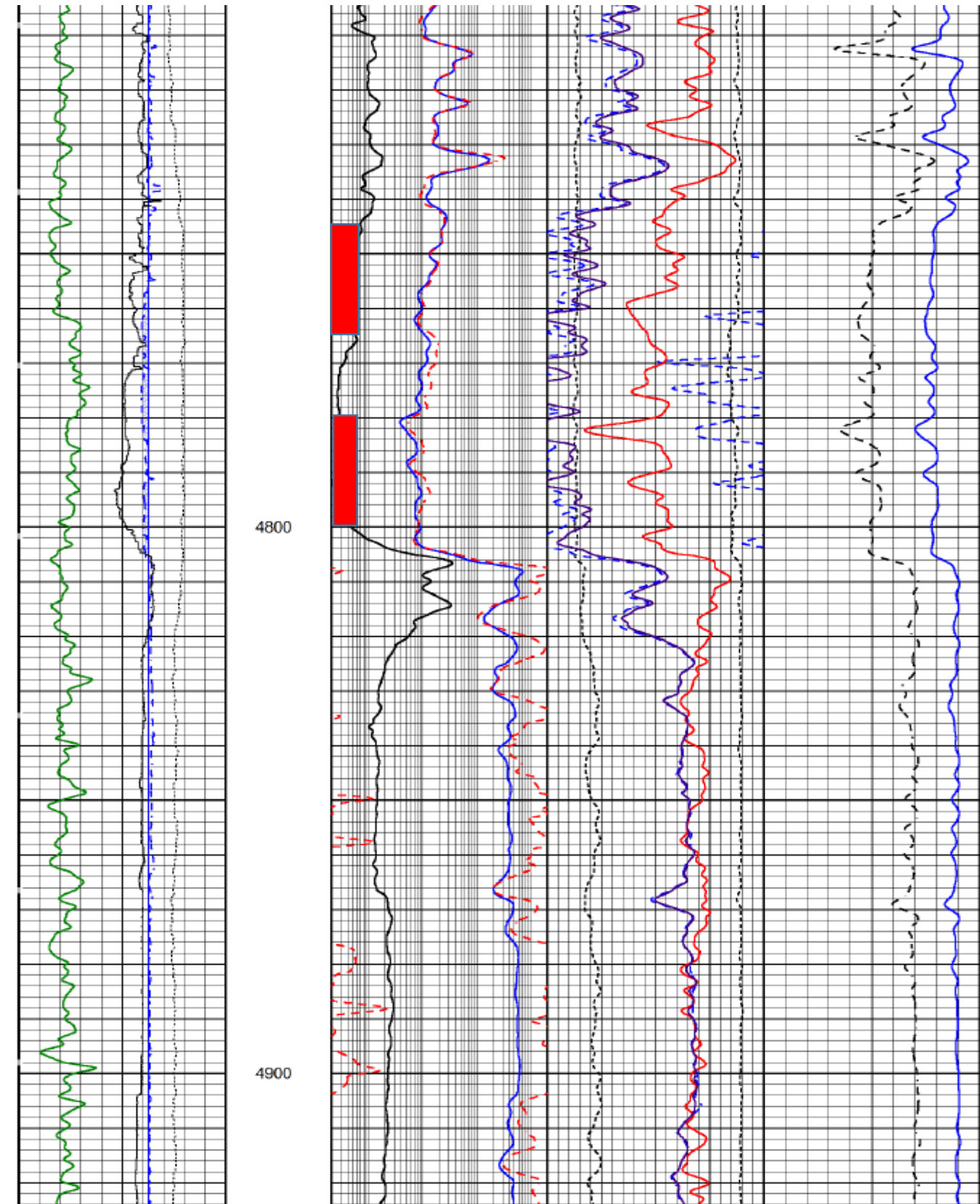


- 16) Rel PKR, TIH, Rel RBP, pull RBP to 5470 and set. Pull Pkr to 5400 and set. Break dn second perf group (5426-5446) pump 5 BPM ramping up to 3000 psi on acid 1000 gal (23.8 BBLs) at 18.8 bbls pump 5 bbl fresh water spacer.
- 17) Repeat per above for each indicated interval
- 18) POOH LD Workstring
- 19) RU wireline PU Permapak PKR w/ stainless wet area and 2.75 R-Nipple w/ Pump out plug below and 2.81 F-Nipple above seal assembly. TIH to 4350' and set
- 20) TIH w/injection tubing to 4340' circulate hole w/PKR fluid. Space out
- 21) PU 4350' 4 1/2" 11.6#/ft L80 LT&C tubing w/ fiberglass cemented lining, , TIH (Get thread rep and run Torque turn)(torque values BTC make to diamond, LTC 1670-2790 ftlbs 2230 optimum)
- 22) Get on On/Off tool, stack down weight as recommended by Mesquite. (45 Pts)
- 23) Test packer and casing to 1000 PSI. Test tubing to 2000 PSI for 30 min.
- 24) ND BOP NU wellhead
- 25) Test Backside 500 PSI 30 min. Leave 300 psi shut in on backside.
- 26) Schedule MIT
- 27) Pump out Pump out plug
- 28) Relieve pressure on backside
- 29) Run MIT
- 30) RD WSU
- 31) Run Step rate test?
- 32) Pump Step rate (May change due to what is seen on acid job) 1500 bbls pumpable required
 - i. 3 BPM 30 min 90 bbls
 - ii. 5 BPM 30 min 150 bbls
 - iii. 7 BPM 30 min 210 bbls
 - iv. 9 BPM 30 min 270 bbls
 - v. 11 BPM 30 min 330 bbls
 - vi. 13 BPM 30 min 390 bbls
 - vii. 15 BPM 30 min 45 bblsTotal 1890 bbls
- 33) Turn well over for disposal
- 34)





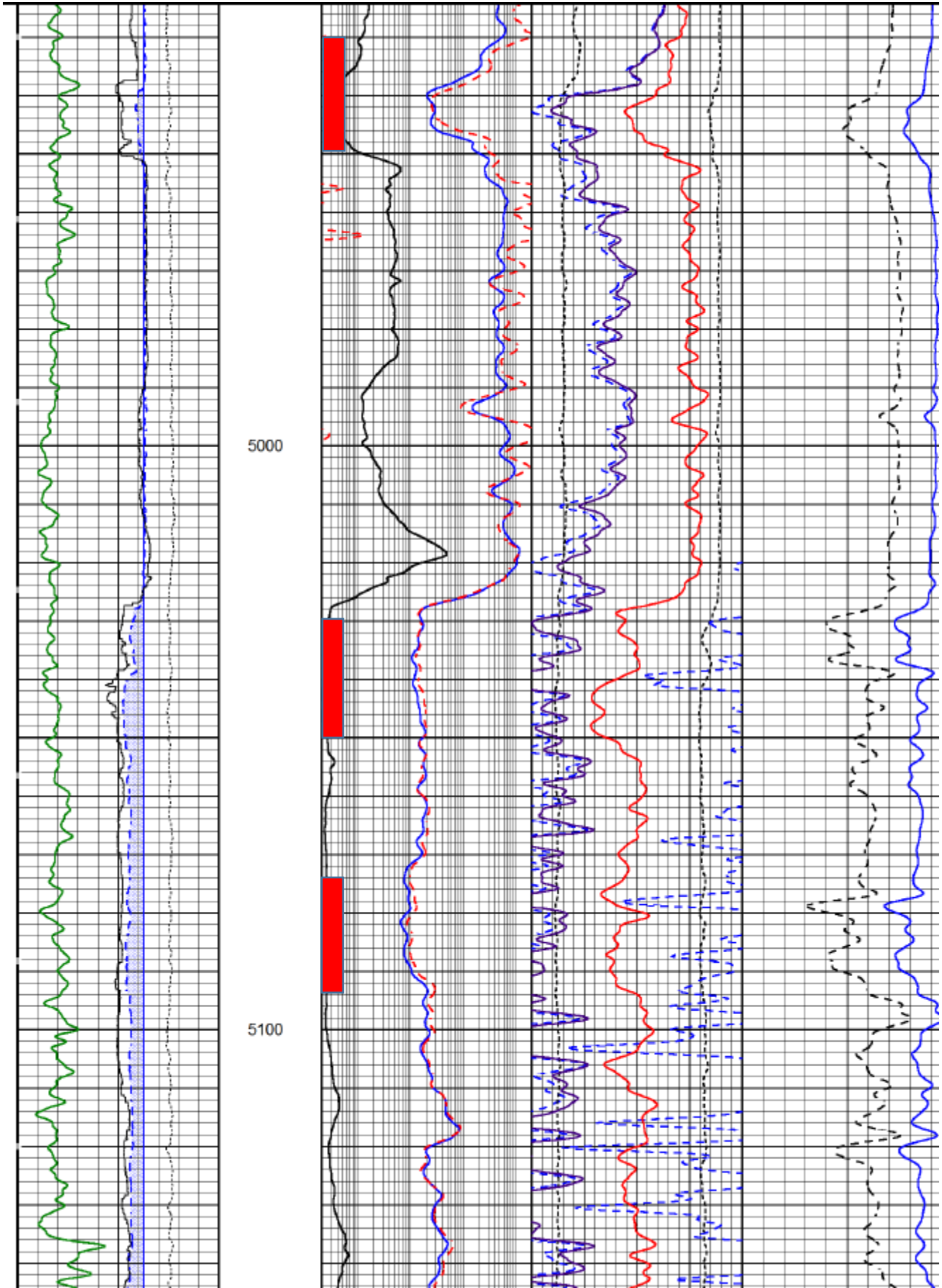


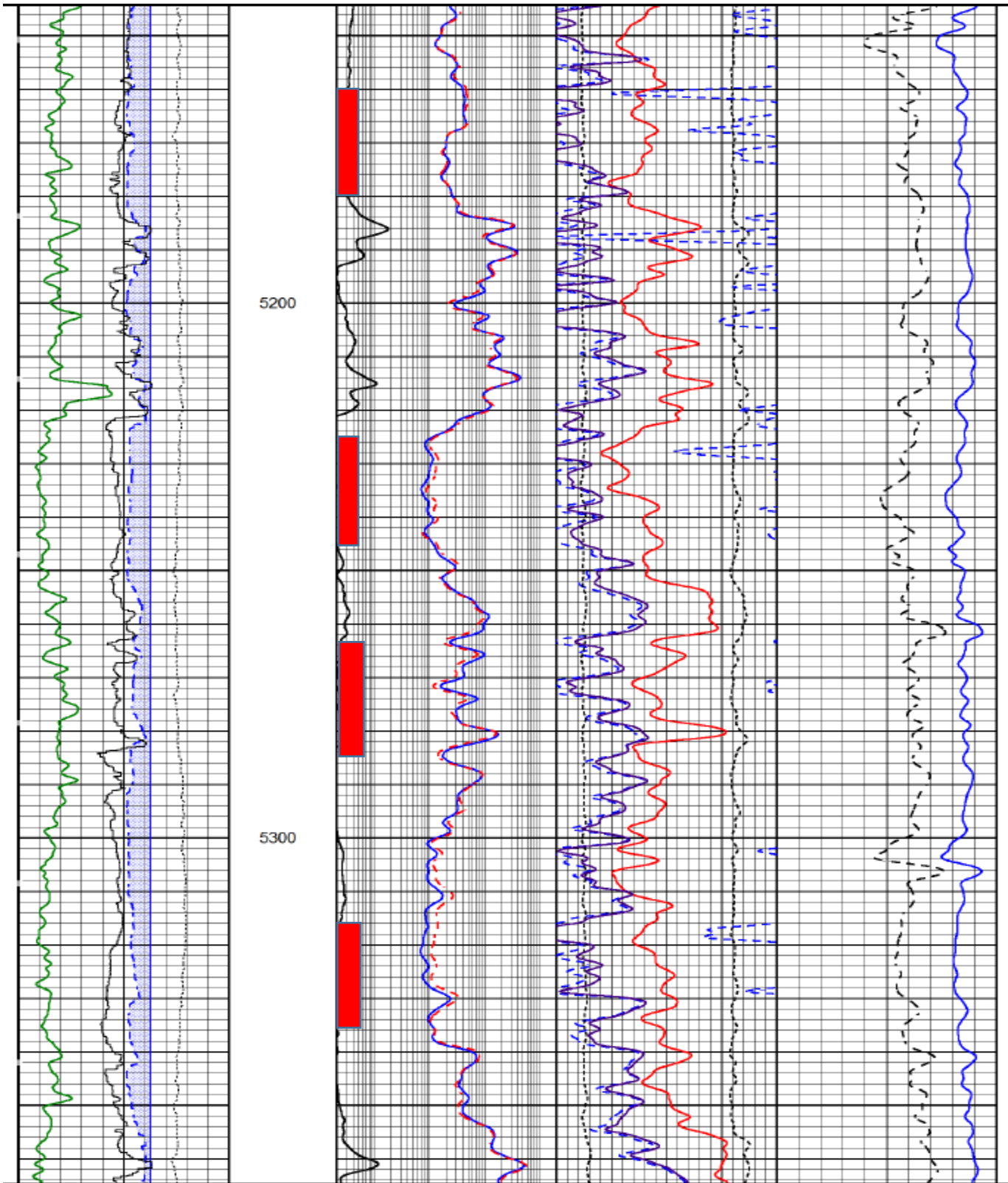




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