



Noble Energy, Inc.
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Name: MELCHIOR 13-17
API:05-123-15510, 02/25/2020

Well Plugging Report

Work Detail

PUX	Activity
02/13/2020	
P	A-Plus Operations Meeting.
P	Load equipment and supplies, travel to location.
P	HSM, JSA, start and warm up equipment.
P	Moved rig and equipment to location.
P	RU, all hard line, rigged up pump truck
U	Wait on base beam,
P	Spot in base beam.
P	HSM, JSA, w/ slick line, spot in slick line, RIH, Fish out tools.
P	Attempt to spot in rig, could not spot rig due to uneven location, and rig sinking in mud.
P	Secure well and rig shut down for the night.
P	Crew travel from location to A-Plus yard.
02/14/2020	
P	Load equipment and supplies, travel to location.
P	HSM, JSA, start and warm up equipment.
P	Check pressures on well,
P	Lay out boards to back up rig unto base beam, to spot in rig, used winch truck to pull back rig unto boards and beam.
P	RU service unit.
P	Check pressures on well, SITP 730#, SICP 730#, SIBH 45#.
P	Pumped 80 bbls fresh water down casing, pumped 40 bbls fresh water down tbg.
P	ND well head, NU BOP, RU floor and tubing equipment.
P	Pressure test, pipe rams, hanger was leaking.
P	Release tubing hanger, TOOH w/ 36 stands of 2 3/8" tbg, and laid down 145 of 2 3/8" tbg on float.
P	Spot in A-Plus wire line, HSM, JSA, RU wire line, RIH, w/ 4 1/2" CIBP set @ 6815' to 6817' POOH, pick up bailer, RIH, dump bail 2sxs 2.3 cuft 0.04 slurry, 15.8 ppg, 1.15 yield, class "G" Cement, from 6815' to 6789' TOC. rig down wire line.
P	Drain and winterized equipment, secure well and rig, shut down for the night.
P	Crew travel from location to A-Plus yard.
02/18/2020	
P	Load equipment and supplies, travel to location.
P	HSM, JSA, start and warm up equipment.
P	Check pressures on well, SITP 0#, SICP 250#, SIBH 30#.
P	Load hole w/50 bbls fresh water, pressure test CIBP to 1000 psi, good test.
P	RU pump truck/ hydrotester perform MIT test to 500 psi.RDMO.
P	Spotted in A-Plus wire line truck, HSM, JSA, RU wire line, RIH w/4 1/2" CIBP and

set @ 4118' to 4120', POOH, change BHA. RIH w/ bailer dump 2sxs 2.3 cuft, 0.04 slurry, 15.8 ppg, 1.15 yield, class "G" cement, from 4118' to 4092' TOC.

P Load hole w/ 2.5 bbls fresh water and pressure test CIBP to 1000 psi for 15 minutes, good test.

P RIH w/ perf gun, shoot holes @ 2500', POOH.

P Pump 5 bbls, Stablish injection rate @ 300 psi.

P RIH w/ perf gun, shoot holes @ 2000', POOH, rig down wireline.

P Drain and winterize equipment.

P Secure well and rig shut down for the night.

P Crew travel from location to A-Plus yard.

02/19/2020

P Load equipment and supplies, travel to location.

P HSM, JSA, start and warm up equipment.

P Check pressures on well, SITP 0#, SICP 0#, SIBH 2#.

P PU 4 1/2" (tbg set CR), RIH w/ 36 stands of 2 3/8" tbg, PU 1jt of 2 3/8" tbg, and a 10ft sub of 2 3/8" tbg, set CR @ 2400'.

P Pressure test tubing to 1000 psi, good test.

P Stablish circulation w/ 5 bbls fresh water, pumped 10 bbls mud flush,

P Plug # 3. Pumped and mixed 165 sxs class "G" cement, (145 sxs between 4 1/2" x 9" OH), (10 sxs inside 4 1/2" below CR), (10 sxs inside 4 1/2" above CR), 19.64 mixed, 7.2 displaced, 33.79 slurry, 15.8 ppg, 1.15 yield, 7.8 PH, From 2400' to 2269' TOC.

P Stung out of CR, laid down 17 jts of 2 3/8" tbg, and a 10ft sub 2 3/8" tbg, reverse circulate w/ 25 bbls fresh water, laid down 56 more jts of 2 3/8" tbg on tbg float.

P SIW, drain and winterize equipment, secure well and rig shut down for the night.

P Crew travel from location to A-Plus yard.

02/20/2020

P Load equipment and supplies, travel to location.

P HSM, JSA, start and warm up equipment.

P Check pressures on well, SITP 0#, SICP 0#, SIBH 0#.

P Spotted in A-Plus wire line, HSM, JSA, RU wire line, RIH w/ perforating gun and shoot @ 756', POOH, w/ perf gun, rig down wire line.

P RU to casing to pump, stablish circulation, circulate hole clean w/ 80 bbls fresh water, perform flow check

P RD work floor and tbg equipment, ND BOP, NU well head.

P RU pump to csg. Establish Circ. w/ 2.5 bbls, pump 10bbls Mud flush. Pump 5 bbls of fresh ahead of cement.

P Plug # 4. Pumped and mixed 122 sxs class "G" cement, (115 sxs between 4 1/2" x 9" OH), (7 sxs between 4 1/2" x 8-5/8" SC), 14.5 mixed, 11.5 displaced, 24.98 slurry, 15.8 ppg, 1.15 yield, 7.8 PH, from 756' to 324' Est. TOC. Outside 4-1/2" casing. Plug was cut short because of broken belt on centrifugal pump. Will run CBL in the AM.

U Replace broken belt and finish washing up cement from pump truck, test pump to ensure everything works good.

P Drain and winterize equipment.

P SIW, clean and secure location.

P Crew travel from location to A-Plus yard.

02/21/2020

P Load equipment and supplies, travel to location.

P HSM, JSA, start and warm up equipment.

P Check pressures on well, SITP 0#, SICP 0#, SIBH 0#.

P NU BOP, RU work floor and tubing equipment.

P Spotted in A-Plus wire line, HSM, JSA, RU, wire line, run CBL .

- P Wait on orders
- P Tally pipe, RIH w/ 21 jts of 2 3/8", tag @ 677', laid down 1 jt of 2 3/8" tbg and picked up 2 10ft subs of 2 3/8" tbg, established circ w/ 1 bbl fresh water.
- P Plug #5 pumped and mixed (29 sxs class "G" cement, 29 sxs in 4 1/2" csg, 15.8 ppg, 1.15 yield, 3.45 bbls mixed, 1.16 displaced, 5.93 bbl slurry, 7.8 PH. From 677' to 300' ETOC.
- P Laid down 20 jts of 2 3/8" tbg, and 2 10ft subs of 2 3/8" tbg.
- P RD work floor and tubing equipment, ND BOP, NU well head.
- P Rig down service unit.
- P Rack out pump and tanks, clean location, get all equipment road ready.
- P Travel from location to A-Plus yard.

* P - Procedure Planned; U - Unplanned A+ issue; X - COA, Well Conditions

Comments

Date	Job	Comment
02/14/2020	Plug #1	RIH, w/ 4 1/2" CIBP set @ 6815' to 6817', dump bail 2sxs 2.3 cuft 0.04 slurry, 15.8 ppg, 1.15 yield, class "G" Cement, from 6815' to 6789' TOC.
02/18/2020	Plug #2	RIH, w/ 4 1/2" CIBP set @ 4118' to 4120', dump bail 2sxs 2.3 cuft 0.04 slurry, 15.8 ppg, 1.15 yield, class "G" Cement, from 4118' to 4092' TOC.
02/19/2020	Plug #3	Plug # 3. Pumped and mixed 165 sxs class "G" cement, (145 sxs between 4 1/2" x 9" OH), (10 sxs inside 4 1/2" below CR), (10 sxs inside 4 1/2" above CR), 19.64 mixed, 7.2 displaced, 33.79 slurry, 15.8 ppg, 1.15 yield, 7.8 PH, From 2400' to 2269' TOC.
02/20/2020	Plug #4	Plug # 4. Pumped and mixed 122 sxs class "G" cement, (115 sxs between 4 1/2" x 9" OH), (7 sxs between 4 1/2" x 8-5/8" SC), 14.5 mixed, 11.5 displaced, 24.98 slurry, 15.8 ppg, 1.15 yield, 7.8 PH, from 756' to 324' Est. TOC. Outside 4-1/2" casing. Plug was cut short because of broken belt on centrifugal pump. Will run CBL in the AM.
02/21/2020	Plug #5	Plug # 5. pumped and mixed (29 sxs class "G" cement, 29 sxs in 4 1/2" csg, 15.8 ppg, 1.15 yield, 3.45 bbls mixed, 1.16 displaced, 5.93 bbl slurry, 7.8 PH. From 677' to 300' ETOC.

On Site Reps:

Name	Association	Notes
scott marez	Co. Rep.	on location