

Brett's Consulting Service

Completions – Workovers – General Systems Setup

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Directions: Wellington & Hwy. 160, 4 E. to Oliver Rd., 5.5 S., E. into

11/29/18

Blocker #16-12 - Figured pipe tally - called welder & had to cut out BOP nipple, 4.5 hr. delay - WW Drilling Rig #4 ran 87 jts. new MW 55,LS 5 1/2", 15.5# csg. - RTD = 3925', LTD = 3923' - landed guide shoe @3626' w/ insert @3584' - circ. f/ 1 hr. w/ good circ. - RU Basic Energy & pumped 500 gal. mud flush & 20 bbl. KCL flush - plug rat hole w/ 30 sxs. - mixed & pumped 250 sxs. 50/50 poz., 2% gel, 10% salt, 5# gilsonite - start plug & displaced w/ 85 bbl. - landed plug @6:40 a.m. w/ 1500#, 800# lift & held - RD Basic, landed in slips & released rig.

RTD: 3925', LTD: 3923', 5' KB

Csg: 5 1/2", 15.5# MW- 55 set @3626' w/ 250 sxs. 50/50 poz. 10% salt, 5# gilsonite & 2% gel.

Guide Shoe: 3626', Shoe Jt. = 42.12' w/ insert @35.84'

Turbolizers: 3585', 3500', 3415', 3332', 3227', 3142', 3057', 2887', & 2802'

Basket: 3626'

12/19/18

Blocker #16-12 - Gusher Oilfield Serv. press. tested welded collar to 1500# & held - RU Excel Wireline to run CBL & CCL off portable mast - LTD @3569', TOC @2150' - bond log showed spotty cement @3376-3412', had good cement f/ 3330-74', perf interval will be 3424-54' - called & discussed w/ John Rigas & opted not to block squeeze - RD Excel - 2 hrs. later MIRU Alliance Well Serv. - RU csg. swab & swabbed dwn. to 2400' FS - SDON. Est. cost = \$7,200

12/20/18

Blocker #16-12 - RU Excel Wireline to perf. Miss. @3424-54', 4" HEC @ 4spf w/ 39 gr. charges through lubricator - RD loggers - TIH w/ PKR & set @3387' - RU swab & equip. - ran swab FL @2,000' FS, swab dry in 3 runs rec. 10 BTF w/ tr. of oil - let set 1 hr. & had 200' FIH w/ muddy wtr. w/ tr. of oil - let set 2nd hr. & had 200' FIH w/ mud cut oil - SDON. 2 day est. cost = \$19,900

12/21/18

Blocker #16-12 - Miss. 3424-54', PKR @3387' - tbg. press. = 120#, FL @2,000' FS, 1387' FIH w/ 1100' oil on top = 79% oil - RU Pro Stim to spot w/ 9.75 bbl. - let equal. & set PKR to treat w/ 1,000 gal. 15% MCA w/ extra clastay - acid on bttm. = loaded perfect, acid on perfs. - staged to 500# w/ GBO - w/ 1 out = incr. to 900# & started feeding @ 1/2 BPM, 600# - w/ 4 out = 1 BPM, 400# - w/ 6 out = 2 BPM, 450# - w/ 8 out = 2.5 BPM, 500# - w/ 12 out = 3 BPM, 600# - w/ 20 out = 4 BPM, 700# - w/ 24 out = 4 BPM, 600# - overflushed w/ 1 bbl. - ISIP = 350#, 5 min. = 40#, 11 min. = 0, 11.5 min. = vac. - let set f/ 30 min., ran swab FL @150' FS - swabbed dwn. to 100' FIH, rec. 23.38 of 46.25 load w/ all water - start test:

1st hr. @ 1pph rec. 2.50 BTF, 600' FIH w/ 50% oil

2nd hr. @3pph rec. 3.34 BTF, 200' FIH w/ 45% oil & mud

3rd hr. @3pph rec. 3.34 BTF, 200' FIH w/ 40% oil & mud - rec. total of 35 bbl. - cleared acid off ann., reset PKR & made run off SN - SDOHW.

Midwest moved in 4 of 6 frac. tanks 3 day est. cost = \$27,600

12/26/18

Blocker #16-12 - Miss. 3424-54', PKR @3387' - tbg. press. = 100#, ran swab FL @1500' FS, 1870' FIH w/ 700' oil on top = 37% oil - swab dwn. to 100' FIH rec. 15 BTF, 2 day total of 50 BTF, 3.75 bbl. over load - start test:

1 hr. @3pph rec. 2.5 BTF, 200' FIH w/ 40% oil - had to shut dwn. due to heavy rain - SD until freeze up. 4 day est. cost = \$31,800

12/28/18

Blocker #16-12 - Miss. 3424-54', PKR @3387' - tbg. press. = 120#, ran swab FL @1500' FS, 1887' FIH w/ 950' oil on top = 50% oil - RD swab equip. - TOH w/ PKR laying dwn. - broke off working head & valves - shut in well w/ swage & valve - loaded well head equip. - RDMO & pulled out w/ dozer. 5 day est. cost = \$37,500

1/31/19

Blocker #16-12 - Basic Energy Servs. on location & set up f/ frac. on Miss. 3424-54' - pumped 36 bbl. pre pad, 48 bbl. 15% NE acid, followed by 118 bbl. pre pad - acid on bttm. = 21 BPM, 820#, finished w/ 21 BPM, 860# - pumped:

.5# 20/40 mesh @79 BPM, 1720#

.75# @79 BPM, 1594#

1.0# @79 BPM, 1512#

1.5# @79 BPM, 1460#

2.0# @79 BPM, 1437#

2.5# @79 BPM, 1454#

3.0# @79 BPM, 1425#

3.5# @79 BPM, 1431#

4.0# @79 BPM, 1466#

4.5# @79 BPM, 1588# - dis. w/ 81 bbl., ISIP = 727#, 5 min. = 477#, 10 min. = 419#, 15 min. = 401# - total of 2365 bbl. load, job complete & shut in.

2/04/19

Blocker #16-12 - MIRU Alliance Well Serv. - well on vac., nipped dwn. frac. valve & RU prod. head & valves - TIH w/ 2 7/8" x 3' perf. sub @3413', SN @3410' & 106 jts. 2 7/8" tbg. - landed tbg. & packed off - Gusher on location to lay swab lines to frac. tanks & hook equalizer line to one other tank - RU swab, ran swab FL @300' FS, 1st 4 runs fought sand - swabbed dwn. to 600' FS, rec. 41.25 BTF, all water - SDON. Est. cost = \$4,700

2/05/19

Blocker #16-12 - Miss. 3424-54', SN @3410' - tbg. = vac. - ran swab FL @500' FS - swabbed steady remainder of day, FL @1100' FS, rec. 531 bbl. f/ day, all water, 2 day total of 572.25 of 2365 bbl. load - SDON. 2 day est. cost = \$10,700

2/06/18

Blocker #16-12 - Miss. 3424-54', SN @3410' - tbg. = light blow, ran swab FL @650' FS, all water - swabbed steady remainder of day - last run 1400' FS, rec. 428 bbl. f/ day w/ tr. of oil - 3 day total of 1,000 bbl., 2365 bbl. load - shut in & SDON.

3 day est. cost = \$16,750

2/07/19

Blocker #16-12 - Miss. 3424-54', SN @3410' - tbg. = light blow, ran swab FL @1,000' FS, all water - swab steady f/ 5 hrs. & had swab cup come apart - tried several times to push to bottom w/ no success - will pull tbg. in a.m. - swabbed total of 277 bbl. f/ day w/ barely show of oil, total of 1277 bbl. total - 2365 bbl. load

4 day est. cost = \$21,700

2/08/19

Blocker #16-12 - TOH laying dwn. - on jt. #44 found all 3 missing pieces of swab cups - ran swab to bttm. w/ no prob. - TIH w/ tbg. & landed SN back @3410' - RU swab & swabbed remainder of day - 1st run FL @700' FS, all water - swabbed dwn. to 1400' FS, rec. 313 bbl. f/ day - total of 1590 bbl. of 2365 bbl. load - oil show not improving - SDOWE 5 day est. cost = \$27,500

2/11/19

Blocker #16-12 - Miss. 3424-54', SN @3410' - ran swab FL @800' FS w/ trace of oil on top - swabbed f/ 5 hrs. & sandline was coming apart - pulled off 1100' & poured new stinger - rec. 275 bbl. f/ day, total of 1865 of 2365 load - SDON.
6 day est. cost \$32,600

2/12/19

Blocker #16-12 - Miss. 3424-54', SN @3410' - ran swab FL @700' FS, 30' oil on top = less than 1% oil - swabbed steady remainder of day - last run FL @1400' FS, rec. 407 bbl. f/ day, total of 2272' of 2365 load w/ 1% oil - SDON.
7 day est. cost = \$37,900

2/13/19

Blocker #16-12 - Miss. 3424-54', SN @3410' - ran swab FL @900' FS, tr. oil on top - swabbed steady remainder of day, last run FL @1500' FS, rec. 369 BTF f/ day w/ tr. oil - total of 2641 BTF, 276 bbl. over load - Jacam took sample, 58,000 chlorides, final results on 2/15/19 - SDON. 8 day est. cost = \$43,925

2/14/19

Blocker #16-12 - Miss. 3424-54', SN @3410' - ran swab FL @900' FS, all water - swabbed steady remainder of day, last run FL @1400' FS, rec. 379 bbl. f/ day, all water - total of 3,020, 655 bbl. over load - SDON. 9 day est. cost = \$49,100

2/15/19

Blocker #16-12 - Miss. 3424-54', SN @3410' - ran swab FL @900' FS, 2525' FIH w/ 30' oil on top = 1% - swabbed 6 hrs., last run FL @1400' FS, rec. 247 bbl. f/ day, all wtr. - total of 3267 bbl., 902 bbl. over load - RD swab equip. & RDMO.
10 day est. cost = \$53,300

3/07/19

Blocker #16-12 - RU Pioneer Wireline portable mast & Pro Stim - ran tracer survey & inj. profile - conclusion was channeled behind pipe going dwn. to Arbuckle - RDMO.
Est. cost = \$6,250

3/11/19

Blocker #16-12 - MIRU Alliance Well Serv. - Sunrise delivered 5 jts. tbg. - RU f/ tbg., unpacked head & tagged bttm. w/ tbg. @3533', LTD @3569' - TOH w/ tbg. - SDON. 2 day est. cost = \$9,500

3/12/19

Blocker #16-12 - RU sand pump, made 1 run & rec. large amount of sand - shut dwn. f/ 1 hr. due to lightning - w/ more severe weather coming, TIH w/ tbg. & landed tbg. - laid rig over, due to high wind warnings f/ next 2 days - started raining & barely made it out of location - shut dwn. until Thur., due to severe storms.

3 day est. cost = \$12,700

3/18/19

Blocker #16-12 - Stood rig back up & unpacked head - TOH w/ tbg. - RU sand pump & cleaned out approx. 5', when pump stuck together - tried to pull apart, but couldn't - SDON. 4 day est. cost = 16,700

3/19/19

Blocker #16-12 - RU Excel Wireline - FL @590' FS, LTD @3546' - shot squeeze gun @3544-45', 4" HEC @4spf - TR Servs. on location, TIH w/ PKR & set @3484' - RU Pro Stim to take inj. rate & holding @1,000#, no rate - called f/ acid - RU Pro Stim to spot acid - 1 bbl. out = staging @800#, incr. press. to 1700# & started feeding - w/ 6 out = 1.25 BPM, 2000# - ISIP = 1860#, 2 min. = 0 - RU tbg. swab FL @sur. & swabbed dry - let set 30 min. & was dry - TOH w/ PKR - RU Excel to set CI retainer @3520' - TIH w/ stinger to 3413' & SDON. 5 day est. cost = \$29,600

3/20/19

Blocker #16-12 - Ran stinger just above retainer @3520' - had swab tank delivered - RU QES Cementing & pumped $\frac{1}{4}$ BPM to clear stinger - stung into retainer & took rate @ 1.2 BPM, 2500# - pumped tbg. vol. - mixed & pumped 50 sxs. Standard w/ friction red. & FL - pumped 25 sxs. in @ $\frac{1}{4}$ BPM, 2500# - stung out of retainer & pumped 15 bbl. to wash up tbg. - no blow on annulus throughout job - waited 1 hr. & TIH w/ PKR & left swinging @2900' - SDON. 6 day est. cost = \$39,220

3/21/19

Blocker #16-12 - Ran PKR dwn. & tagged retainer @3520' - pulled up & set PKR @3387' to iso. Miss. @3424-54' - ran swab FL @300' FS, 3090' FIH w/ 525' oil on top = 17% oil - swab dwn. to 600' FS, rec. 32.50 BTF w/ 1% oil - start test:

1st hr. @10pph rec. 50 BTF, FL @700' FS w/ 1% oil

2nd hr. @10pph rec. 53.50 BTF, FL @800' FS w/ 1% oil

3rd hr. @10pph rec. 54.00 BTF, FL @800' FS w/ 1/2 % oil

4th hr. @9pph rec. 50.00 BTF, FL @900' FS w/ 1/2% oil

5th hr. @9pph rec. 45.00 BTF, FL @1,000' FS w/ 1/2% oil

6th hr. @9pph rec. 50.00 BTF, FL @1,000' FS w/ 1/2% oil

7th hr. @9pph rec. 45.00 BTF, FL @1,000' FS w/ 1/2% oil, total of 380 bbl. - SDON.

7 day est. cost = \$45,070

3/22/19

Blocker #16-12 - Miss. 3424-54', PKR @3387' - FL @600' FS, 2790' FIH w/ 30' oil on top = 1% oil - swabbed dwn. to 700' FS, rec. 22 BTF - start test:

1st hr. @9pph rec. 54 BTF, FL @800' FS w/ 1/2% oil

2nd hr. @8pph rec. 48 BTF, FL @800' FS w/ 1/2% oil

3rd hr. @7pph rec. 42 BTF, FL @800' FS w/ 1% oil

Have slightly more gas after 3rd hr.

4th hr. @9pph rec. 47 BTF, FL @1,000' FS w/ 1% oil

5th hr. @8pph rec. 46 BTF, FL @1,000' FS w/ 1% oil - RD swab equip. & TOH w/ PKR - TIH w/ 3' perf. sub, SN & 106 jts. 2 7/8" tbg. w/ SN @3410' - landed tbg. & shut in well - called f/ dozer - RDMO.

