

# FALCON CREEK RESOURCES, INC.

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## Workovers / Recompletions

### **Kyte #8**

**660' FNL & 1980' FEL**

**Sec 23, T20S, R38E**

**Lea County, New Mexico**

**Project: Tubb/Blinbry Recomp.**

**Contractor: N/A**

**Formation: Tubb/Blinbry**

**TD: 7950'**

6/24/98 MIRU pulling unit-POH w/ 185-7/8" & 120 -3/4" rods & 21/2 x 13/4 x 20' pump unseat TAC & POH w/ 234 jts 2 7/8" tbg - TAC - 12 jts - SN - perf sub - 1jts w/ BP - lay down 9 jts while waiting for WL. MIRU WL and set 7" plugwell CIBP @ 7100'-load casing w/ 260 bbls produced water & 2% KCL and test plug to 1500 psi- ROMO pump truck- RIH w/ WL and perforate Tubb formation from 6614'-6622' (2 JSPF) & 6658' -6676 (1JSPF) & 6738'-6744' (2JSPF)- Total of 49 holes- ROMO WL- SI BOP's -SDFN. PO to Acidize @ noon..

DC: 5,370

CC: 5,370

6/25/98 SICP: 50 psi, RIH w/ model "R" pkr & 208 jts tbg -FL @ 2500'-decide not to spot acid-holes open- set pkr @ 6503' - Acidize w/ 2500 gals 15% NEFE w/ AIR: 4.3 BPM @ 3500 psi- excellent ball action w/ ballout on 55<sup>TH</sup> ball sealer- RD MO BJ services after ISIP & 15 min SIP listed below- RU swab- swab to 5900' after 5<sup>th</sup> swab w/ FL increasing to 4200" after 8<sup>th</sup> swab them swabbed dry on 10<sup>th</sup> run- release pkr & KO ball sealer- reset & swab dry- no oil shows w/ good gas show- SI 1hr & get 200' fluid entry- SWION to let reservoir pressure build.

DC: 8,208

CC: 13,578

6/26/98 SICP: 50 psi. RIH w/Model "R" pkr and 208 jts tbg. FL @ 2500'. Decide not to spot acid. Holes open. Set pkr @ 6503'. Acidize w/2500 gals 15% NEFE w/AIR. 4.3 BPM @ 3500 psi. Excellent ball action w/ballout on 55<sup>th</sup> ball sealer. RDMO BJ Services after ISIP and 15 min SIP listed below. RU swab. Swab to 5900' after 5<sup>th</sup> swab w/FL increasing to 4200'. RU swab. Swab to 5900' after 5<sup>th</sup> swab, fluid level increased to 4200' after 8<sup>th</sup> swab. Swabbed dry on 10<sup>th</sup> run. Release pkr and KO ball sealers. Reset and swab dry. No oil shows w/good gas show. SI 1 hr and set 200' fluid entry. SWIFN

6/27/98 SITP: 75 psi. FL @ 5900', 25% oil on 1<sup>st</sup> run- 100% oil on 2<sup>nd</sup> run, w/ good blow of gas. Swab dry- RELEASE PKR & begin swabbing 7" csg down for frac in AM- Swab to 5800' - POH w/ Tbg & PKR, Install frac valve- ready to frac down casing.

DC: 6,050

CC: 20,308

6/28/98 SICP: 60 psi. RU BJ Services & FRAC down 7" csg @ 40-50 BPM- Well fracing good then screened out (pressured-out) when R/C sand got inside casing-RC sand causing extremely high friction pressure. Remaining sand left in casing is Approx. 10,000 # 10/30 OTTAWA & 40,000 # RC Sand- Total in formation - 128,500#. 22,500- 100 mesh, 106,000- 16/30 OTTAWA.

DC: 71,699

CC: 92,007

6/29/98 Shut in for Sunday

6/30/98 PO: Washing frac sand. SICP: 700 psi- bled down quickly-RU reverse unit. RIH w/ notched collar and tag sand @ 5640'- POH w/ tbg to lay down in singles- RIH as before and tbg was stuck- work tbg free and try to reverse out sand- tbg plugged- POH w/ 20 stds- pressure up on tbg & reestablished circulation- start washing sand- very thick & consolidated- washing slowly- wash back down 5546'- recover good sand but tbg is constantly getting plugged- circulate tbg clean & POH w/ 20 stds- SD due to darkness. Washing is getting easier on last 3 joints.

DC: 2,569 CC: 94,576

7/1/98 PO swab to clean up frac. SITP: 0 psi, SICP: 0 psi. Continue washing frac sand- some oil in reverse pit- no gas shows, wash to 7100'- circulate hole clean for 1 ½ hrs- POH w/ 10 stds of tbg to 6468'- ready to swab in AM- RDMO reverse unit SD due to darkness- lost 70 bbls of produced water to perforations @ +- 6700' this loss will be added to load to be recovered.

DC: 3,402 CC: 97,598

7/2/98 PO continue swabbing to clean up frac. SITP: 300 psi, SICP: 320 psi – Flow to pit for 1 hr – RIH w/ tbg to PBD @ 7100' – no fill- POH w/ 18 stds tbg to 6469' and began swabbing – 5% oil cut on 1<sup>st</sup> swab turning to water on 19<sup>th</sup> run- FL @ 1800' w/ 2% oil cut- continue swabbing for a total of 39 runs- recovered 281 bbls of load- final FL @ 2900' w/ 4-5% oil cut- good show of gas.

DC: 1,864 CC: 99,462

7/3/98 PO continue swabbing- put well on pump. SITP: 35 psi- FL @ 1500' w/ 250' free oil on 1<sup>st</sup> run. Continue swabbing- after 18 runs FL @ 3000' w/ 5% oil cut after 20 runs FL @ 3000' w/ 5% oil cut- POH w/ tbg- RIH w/ BPMA, perf sub, TAC, SN, 216 jts of tbg- SN @ 6755' RIH w/ 2 ½ x 1 ¾ x 18 RHBC insert pump w/ top seals, 120- ¾", 147-7/8" Rods, 18' pony's- HWO & PWTP @ 6:30 p.m. Pump Tubb Formation over 4<sup>th</sup> of July Holiday Weekend.

DC: 2,234 CC: 101,696

7/4/98 Pumped 8 BO, 110 BW, 50 MCF – 1104 BBLS to be recovered.

7/5/98 Pumped 9 BO, 215 BW, 80 MCF – 889 BBLS to be recovered.

7/6/98 Pumped 10 BO, 165 BW, 80 MCF – 724 BBLS to be recovered.

7/7/98 PO swabbing- prepare to test Blinebry formation. Pumped 10 BO, 140 BW & 95 MCF. POH w/ rods & pump- start swabbing w/ beginning FL @ 5000'- swabbed a total of 30 runs- recovered 180 BBLS of fluid with a steady oil cut of 25%. SICP: 120 psi w/ final FL @ 5400' – SWLON evaluate in AM- looks good.

DC: 1,862 CC: 103,558

7/8/98 PO prepare to acidize Blinebry formation. SICP: 280 psi, SITP: 170 psi- FL @ 4700'- 1400' free oil 1<sup>st</sup> 2 runs. POH w/tbg & TAC. RU WL and set CIBP @ 6500' perforate Blinebry formation from 5976'-5982', 6014'-6036', 6074'-6098', 6108'-6112'- JSPF- total 60 holes. RDMO WL- RIH w/ model "R" PKR & SN & 185 jts 2 7/8" tbg EOT @ 5811.91'- SDFN.

DC: 4,829 CC: 108,387

7/09/98 SITP = 50 psi, SICP 50 psi.  
 MIRU acidizers, add 3 jts tbgs & set pkr @ 5866' (error on yesterday's tally). Acidize w/2500 gals 15% NEFE acid – excellent ball action w/ballout on 91<sup>st</sup> ball.  
 Avg TP 3120 psi @ 6 BPM – ISIP = 2180 psi  
 @ 5 min = 2086 psi  
 @ 10 min = 2010 psi  
 @ 15 min = 1920 psi  
 RDMO acidizers & RU swab: 5% oil cut on 5<sup>th</sup> swab, swab dry on 16<sup>th</sup> run w/30% oil cut. SI 1 hr – 300' fluid entry w/45% oil cut – release pkr & RIH to KO ball sealers – POOH w/tbg & pkr, install frac valve. Release crew until Friday – ready to frac in AM – NOTE: Extremely good gas blow – steady 3' flare after last 2 runs.  
 BFTBR: 58

7/10/98 SICP = Vacuum. Remove frac valve, NU BOP's, TIH w/2-7/8" tbg to 5,870', RU to swab. Made 35 swab runs. FFL @ 1800', tr of oil, rec 262 bbls, SWIFN.

7/11/98 SITP = 5 psi, IFL = 1,100'. Made 52 total swab runs. On 40<sup>th</sup> swab run, oil cut increased to 40%. Turned well into frac tank. FFL @ 1800', rec 300 bbls total. SWIFN.

7/12/98 SITP 350 psi, IFL = 1,100'. Made 7 swab runs and well kicked off flowing. Rec 246 bbls @ 1630 hr, final oil cut 45%. Spot gas flow of 450 MCFPD. Flowing into system w/150 psi FTP on 30/64" ck.

7/13/98 24 hr production: 130 BO, 159 BW, 850 MCF, FTP 230 psi on 30/64" ck.  
 Will lay down rods in triples and release rig. Will flow to cleanup Blinebry formation  
 DC: \$6,000

7/14/98 Well flowed 24 hrs:

<u>BOPD</u>	<u>BWPD</u>	<u>MCFPD</u>	<u>FTP</u>	<u>CHOKE</u>	<u>BLTR</u>
140	152	850	240	30/64"	876

LD rods (in triples) from derrick. Broke tbg into singles. RDMO WO rig.  
 Plan to flow well to clean up until next week (7/20).

7/15/98

<u>BOPD</u>	<u>BWPD</u>	<u>MCFPD</u>	<u>FTP</u>	<u>CHOKE</u>	<u>BLTR</u>
148	150	875	260	30/64	726

7/16/98

130	120	875	260		606
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7/17/98

135	120	870			486
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7/18/98

130	128	870			358
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7/19/98

100	105	850			253
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7/20/98 NO REPORT – lagging production 24 hrs

7/21/98

105	90	970	170	34/64	
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7/22/98 NO REPORT

7/23/98

98	100	970			
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7/24/98 **PO:** Run Hydrostatic bailer to clean out sand.  
 MIRU pulling unit – Pump 30 bbls 10 ppg brine down tbg. Release pkr & RIH to tag btm. POH w/ tbg & pkr. Pump 20 bbls brine down annulus. POOH w/ tbg & find btm @ 6,299', CIBP @ 6,500'. 200' of sand to bail out. Close blind rams on BOP & SDFN.  
 Made 75 BOPD, 70 BWPD, 840 MCFD on 30/64" chk, 220 psi FTP.

7/25/98 **PO:** KO CIBP using sandline drill.  
SICP=350 psi. RU kill truck & pump down 7" casing. Took 140 bbls, 10 ppg brine. PU LeFleur bailer & RIH w/ tbg utilizing 1500' of cavity. Start bailing sand to 6,318', btm hole sticky. POOH w/ bailer, found 2' resin coated sand and 40' clean sand. Install 6-1/8" bit & RIH w/ bailer. Bail for 2.5 hrs and clean out sand to 6,500'. POOH w/ tbg & bailer, empty cavity, RIH w/ stds tbg for kill pipe.  
**DC:** \$5,864

7/26/98 **PO:** Prepare to LD 2-7/8" tbg  
SICP=0, SITP=0. POOH w/ kill string. RIH w/ sandline drill. Tag CIBP @ 6,508' (depthometer). Drl on plug, knock free after 1-1/2 hrs and push to 7,025'. RD sandline drill. RIH w/ kill string. SDFWE  
**DC:** \$2410

7/28/98 **PO:** Run Lok-set packer w/ 2-3/8" tbg  
SICP=1300 psi, SITP=1250 psi. Kill well w/ 70 bbls 10 ppg brine. FIH w/ tbg in derrick. POOH and lay down all 2-7/8" tbg. Moved 2-3/8" tbg from Kyte #7. Placed 2-7/8" tbg on racks @ Kyte 8. Change out rams on BOP to 2-3/8" – RIH w/ 14 jts 2-3/8 to be used as kill string.  
**DC:** \$6831

7/29/98 **PO:** Swab Tubb & Blinebry formation to flow ✓  
SICP & SITP=300 psi. Kill well w/ 20 bbls 10# brine. POOH w/ kill string. RIH w/ 4' perf sub, SN, 12 jts 2-3/8 tbg, x-over, Lok-set pkr, x-over, 2 jts 2-3/8" tbg, 2-7/8" x 2-1/4 profile nipple w/ site oil tool on/off tool w/ 4-3/4" x 2-7/8" overshot, & 198 jts 2-3/8" tbg. Set pkr w/ 17 pts tension. Installed dual wellhead. PU 198 jts 2-3/8" and RIH beside deep string to 6434'. Spot 50# frac sand mixed w/ 20 bbls scale inhibitor (10.4 ppg) fluid. Spot on top of pkr. PCOH w/ tbg to 6,005' (185 jts). Hook up short string in dual wellhead. Position valves w/ long string (Tubb) towards pump jack & taller w/ short string (Blinebry) away from pump Jack w/ master valve on bottom (lowest).  
NOTE: All tbg has turned down collars. Long string – SN @ 6,892', Pkr @ 6,502', and On/off tool @ 6,434'. Short String- SN @ 6005'.  
**DC:** \$6388

7/30/98 **PO:** Swab Tubb & Blinebry formation to flow  
Blinebry (short string): Vacuum  
Tubb (long string): 20 psi  
IFL=3000' on Blinebry. Swab 2-3/8" tbg. Recovered 240 BW. Final oil cut of 8%. Final FL=2900'  
**DC:** \$1,300

7/31/98 **PO:** Flow back Blinebry – Prep to swab test Tubb  
SICP=420 psi, SITP=200, FL @ 2900' FS – 800' free oil on 1<sup>st</sup> swab. Swab well from SN since 10:00 am and as follows:  
11:00 am FL @ 2500', 20% oil cut, fair gas, CP=600 psi w/ 1-3 min flow time after run  
3:00 pm FL @ 1600', 70% oil cut, good gas, CP=720 psi w/ 3-5 min flow time after run  
5:00 pm FL @ 1400', 70% oil cut, good gas, CP=760 psi w/ 10-15 min flow time after run  
7:30 pm FL @ 1400', 70% oil cut, good gas, CP=860 psi w/ 30-45 min flow time after run  
Total fluid recovered = 70 BO + 103 BW (measured) – SDFN. Well should flow in am.  
**DC:** \$2,162

8/1/98 **PO:** Flow back Blinebry  
SICP=950 psi, SITP=250. Open tbg thru system. DN Sustain flow. RU swab, make 3 runs. CP dropped to 820 psi. Well flowing @ 900 mcf, flowed 1 hr. RU swab on Tubb tbg string. Begin swabbing when x-over nipple below Blinebry side valve started leaking. Bleed csg thru system. Kill well w/ 100 bbls 10 ppg brine. Fix x-over nipple. Flange up short string (Blinebry). Swab until dark. Make 14 runs, recovered 42 BW & 25 BO. SICP climbed to 280 psi. starting FL @ 3500', ending FL @ 2600'. SDFN.

**DC:** \$1,716

8/2/98 **PO:** Run rods on Tubb Zone  
SICP=460 psi, SITP=150 psi, FL @ 2600' – 40% oil cut on 1<sup>st</sup> swab continue swabbing until 11:00 am, FL @ 1400' w/ SICP=680 psi, 1 hr 17 min flow before dying. Swab until 1pm, FL @ 1400' w/ SICP @ 860 psi, 1 hr 30 min flow before dying. Swab until 5 pm. FL @ 1400' w/ SICP=950 psi. Well flowing w/ 150-250 psi tbg pressure. After 15 min CP drops to 820 psi. Release pulling unit crew. Leave well flowing thru system @ 900 mcf rate w/ 70% oil cut. SDF Sunday

**DC:** \$1,360

8/4/98 **PO:** Put well on production  
**Blinebry:** SICP=1200 psi, SITP=100 psi. FL @ surface. Pull swab. Flows 2-1/2 hrs @ 1.55 MMCF/D then dies. Pull 1 swab and flows 2 hrs then dies. Pull 1 swab and flow 2 hrs then dies. Leave well flowing @ 7:00 pm w/ FTP=150 psi, oil cut @ 70%.

**Tubb:** RIH w/ 2" x 1-1/4" x 20' RHBC Insert pump, 26K shear tool, 120 3/4" rods, 150 7/8" rods, 1 7/8" x 8' pony rod, 1 7/8" x 6' pony rod, 3 7/8" x 2' pony rods. Replumb wellhead. Space well out and PWTP @ 7:00 pm.

**DC:** \$1910                      **CC:** \$49,712

8/4/98 **Made:** 30 BOPD, 50 BWP, 300 MCFD – Both Tubb & Blinebry producing.  
8/5/98 **Made:** 30 BOPD, 50 BWP, 300 MCFD – Both Tubb & Blinebry producing.  
8/6/98 **Made:** 6 BOPD, 130 BWP, 20 MCFD –Tubb only. Blinebry logged off. MI swab unit to kick off Blinebry.  
8/7/98 **Made:** 7 BOPD, 140 BWP, 100 MCFD. Blinebry died overnight.  
8/8/98 **Made:** 18 BOPD, 100 BWP, 100 MCFD  
8/9/98 **Made:** 65 BOPD, 140 BWP, 250 MCFD  
8/10/98 **Made:** 60 BOPD, 280 BWP, 570 MCFD  
8/11/98 **Made:** 80 BOPD, 210 BWP, 725 MCFD  
8/12/98 **Made:** 90 BOPD, 185 BWP, 775 MCFD  
8/13/98 **Made:** 80 BOPD, 170 BWP, 775 MCFD  
8/14/98 **Made:** 80 BOPD, 160 BWP, 775 MCFD  
Early gauge (3 hours) due to Sid Richardson line repairs.  
8/15/98 **Made:** 50 BOPD, 55 BWP, 470 MCFD  
Well loaded up, ran swab & returned to production.  
8/16/98 **Made:** 60 BOPD, 120 BWP, 680 MCFD  
8/17/98 **Made:** 75 BOPD, 145 BWP, 850 MCFD  
8/18/98 **Made:** 60 BOPD, 150 BWP, 840 MCFD  
8/19/98 **Made:** 50 BOPD, 100 BWP, 732 MCFD – Blinebry  
5 BOPD, 30 BWP, 35 MCFD – Tubb  
Well down 4 hours for meter run tie-in.  
8/20/98 **Made:** 55 BOPD, 89 BWP, 716 MCFD – Blinebry  
10 BOPD, 36 BWP, 34 MCFD – Tubb  
8/21/98 **Made:** 60 BOPD, 90 BWP, 716 MCFD – Blinebry  
10 BOPD, 50 BWP, 32 MCFD – Tubb

8/22/98	<b>Made:</b> 60 BOPD, 80 BWPD, 717 MCFD -- Blinebry 5 BOPD, 55 BWPD, 40 MCFD -- Tubb
8/23/98	<b>Made:</b> 60 BOPD, 100 BWPD, 717 MCFD -- Blinebry 0 BOPD, 0 BWPD, 35 MCFD -- Tubb
8/24/98	<b>Made:</b> 60 BOPD, 90 BWPD, 711 MCFD -- Blinebry 0 BOPD, 0 BWPD, 35 MCFD -- Tubb MI Workover rig on Tubb. C/O Rod Pump
8/25/98	<b>Made:</b> 75 BOPD, 100 BWPD, 710 MCFD -- Blinebry 0 BOPD, 0 BWPD, 30 MCFD -- Tubb
8/26/98	<b>Made:</b> 60 BOPD, 50 BWPD, 708 MCFD -- Blinebry 3 BOPD, 20 BWPD, 25 MCFD -- Tubb
8/27/98	<b>Made:</b> 60 BOPD, 50 BWPD, 706 MCFD -- Blinebry 0 BOPD, 0 BWPD, 25 MCFD -- Tubb (Pulled pump and swab. Run new pump today)
8/28/98	<b>Made:</b> 50 BOPD, 50 BWPD, 710 MCFD -- Blinebry (3 hrs shut in to run pump) 0 BOPD, 0 BWPD, 0 MCFD -- Tubb (Ran pump)
8/29/98	<b>Made:</b> 56 BOPD, 65 BWPD, 695 MCFD -- Blinebry 4 BOPD, 40 BWPD, 30 MCFD -- Tubb
8/30/98	<b>Made:</b> 56 BOPD, 55 BWPD, 688 MCFD -- Blinebry 4 BOPD, 40 BWPD, 38 MCFD -- Tubb
8/31/98	<b>Made:</b> 37 BOPD, 45 BWPD, 689 MCFD -- Blinebry 3 BOPD, 15 BWPD, 38 MCFD -- Tubb (18 hr gauge)
9/1/98	<b>Made:</b> 50 BOPD, 70 BWPD, 686 MCFD -- Blinebry 3 BOPD, 3 BWPD, 25 MCFD -- Tubb
9/2/98	<b>Made:</b> 50 BOPD, 50 BWPD, 686 MCFD -- Blinebry 3 BOPD, 3 BWPD, 25 MCFD -- Tubb
9/3/98	<b>Made:</b> 50 BOPD, 60 BWPD, 684 MCFD -- Blinebry Tubb SI to build pressure. Will put plunger online today.
9/4/98	<b>Made:</b> 55 BOPD, 60 BWPD, 696 MCFD -- Blinebry 10 BOPD, 20 BWPD, 10 MCFD -- Tubb
9/5/98	<b>Made:</b> 60 BOPD, 90 BWPD, 673 MCFD -- Blinebry Tubb Not Flowing
9/6/98	<b>Made:</b> 50 BOPD, 70 BWPD, 640 MCFD -- Blinebry
9/7/98	<b>Made:</b> 50 BOPD, 60 BWPD, 653 MCFD -- Blinebry
9/8/98	<b>Made:</b> 55 BOPD, 55 BWPD, 654 MCFD -- Blinebry
9/9/98	<b>Made:</b> 50 BOPD, 65 BWPD, 650 MCFD -- Blinebry
9/10/98	<b>Made:</b> SI to connect test treater
9/11/98	<b>Made:</b> 30 BOPD, 30 BWPD, 643 MCFD Down 6 hrs
9/12/98	<b>Made:</b> 65 BOPD, 50 BWPD, 585 MCFD
9/13/98	<b>Made:</b> 50 BOPD, 45 BWPD, 584 MCFD
9/14/98	<b>Made:</b> 45 BOPD, 40 BWPD, 652 MCFD
9/15/98	<b>Made:</b> 50 BOPD, 40 BWPD, 596 MCFD
9/16/98	<b>Made:</b> 55 BOPD, 35 BWPD, 590 MCFD
9/17/98	<b>Made:</b> 65 BOPD, 45 BWPD, 59 MCFD
9/18/98	<b>Made:</b> 55 BOPD, 45 BWPD, 595 MCFD
9/19/98	<b>Made:</b> 60 BOPD, 40 BWPD, 591 MCFD

9/20/98	<b>Made:</b> 55 BOPD, 50 BWPD, 587 MCFD
9/21/98	<b>Made:</b> 50 BOPD, 40 BWPD, 585 MCFD
9/22/98	<b>Made:</b> 50 BOPD, 30 BWPD, 582 MCFD
	<b>Final Report on Blinebry</b>