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| Context price of the property of the pressure of the pressure back to 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation & 1000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" RCNB's in 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" formation & 250%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" formation & 250%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" formation; drop (4) 7/8" formation; drop (4) 7/8" formation & 250%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" formation & 250%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" RCNB's in 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" RCNB's in 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation @ 350%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation @ 300%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation @ 400%; pumped 3½ 20/40 SPG @ formation @ 350%; 2000 gals 70 quality foam with 2½ 20/40 SPG @ formation @ 4100%; numeed increase from 4000% to 7000%. Sp, bled pressure back to 2000 resumed frac pressure up immediately. Bled pressure back to 100%, resumed frac, pumped 6 bbls 70 quality foan formation back as and fund @ 3218'. Tried to sand pump, top of sand now @ 3258'. Will with 22-7/8" tubing (scalloped collar with packer, went back in hole to 3225'. Loaded back side of casing with packer fluid & tested to 500%, held. Released striper head, BOP, swivel & sand pump. Swabbed. Well flowing. Closed in waiting on pipeline connection. | | |
| Context price of the property of the pressure of the pressure back to 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation & 1000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" RCNB's in 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" formation & 250%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" formation & 250%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" formation; drop (4) 7/8" formation; drop (4) 7/8" formation & 250%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" formation & 250%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" RCNB's in 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation; drop (4) 7/8" RCNB's in 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation @ 350%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation @ 300%; 2000 gals 70 quality foam with 3½ 20/40 SPG @ formation @ 400%; pumped 3½ 20/40 SPG @ formation @ 350%; 2000 gals 70 quality foam with 2½ 20/40 SPG @ formation @ 4100%; numeed increase from 4000% to 7000%. Sp, bled pressure back to 2000 resumed frac pressure up immediately. Bled pressure back to 100%, resumed frac, pumped 6 bbls 70 quality foan formation back as and fund @ 3218'. Tried to sand pump, top of sand now @ 3258'. Will with 22-7/8" tubing (scalloped collar with packer, went back in hole to 3225'. Loaded back side of casing with packer fluid & tested to 500%, held. Released striper head, BOP, swivel & sand pump. Swabbed. Well flowing. Closed in waiting on pipeline connection. | | ALTERING CASING |
| CHARGE PLANS CHARG | | PLUG AND ABANDONMENT |
| OTHE | PULL OR ALTER CASING | |
| ^{7.} Describe Preposed of Completed Operations (Clearly state all perinaent details, and give pertinent dates, including estimated date of itaring any proposed by set multer has a proposed by set multer has a proposed by set of the perinament dates, including estimated date of itaring any proposed by set of the pressure up tubing-casing annulus to 1000#; foam frac down 2-7/8" tubing through 3308'-3416' as follows: Establish injection rate @ 15 BFM equivalent rate with 2000 gals 70 quality foam pad; 1000 gals 70 quality foam with 1# 20/40 SPC (@ formation) @ 2950#; 2000 gals 70 quality foam with 22# 20/40 SPC @ formation; 2000 gals 70 quality foam with 32# 20/40 SPC @ formation; drop (4) 7/8" RCNB's in 2000 gals 70 quality foam with 32# 20/40 SPC @ formation @ 3250#; 2000 gals 70 quality foam with 32# 20/40 SPC @ formation @ 3250#; 2000 gals 70 quality foam with 32# 20/40 SPC @ formation @ 4000#; increase with sealers on formation. Pumped 1000 gals 70 quality foam with 1# SPC @ formation @ 4100#; 2000 gals 70 quality foam with 32# SPC @ formation @ 4000#; pumped 32/40 SPC @ formation @ 4100#; pumped 32/40 SPC @ formation @ 4000#; 5000 gals 70 quality foam with 22# SPC @ formation @ 4000#; pumped 32/40 SPC @ formation @ 4000#; pumped 32/40 SPC @ formation @ 4100#; pumped 32/40 SPC @ formation @ 32.51". Bled pressure back to 100#, resumed frac, pumped 6 bbls 70 quality foam, pressure to 6000#. ISIP 6000#, 5 min 2900#. Flow well down. Ran sand line in hol found fill 400' above SN. Bled pressure down, install BOP, unseat packer & pull 2-7/8" tubing (scalloped collar on bottom), found sand @ 3225'. RU stripper head, swivel & pump truck. Circulate frac sand out of hole down to 3500'. Displace fluid in tubing; pulled 2-7 | OTHER_Fracd | X |
| pressure up tubing-casing annulus to 1000#; foam frac down 2-7/8" tubing through 3308'-3416' as foressure up tubing-casing annulus to 1000#; foam frac down 2-7/8" tubing through 3308'-3416' as follows: Establish injection rate (d) 5 BPM equivalent rate with 2000 gals 70 quality foam pad; 1000 gals 70 quality foam with 1# 20/40 SPG (d) formation) (d) 2950#; 2000 gals 70 quality foam with 2½# 20/40 SPG (d) formation; 2000 gals 70 quality foam with 3½# 20/40 SPC (e) formation; drop (d) 7/8" RCNB's in 2000 gal pad with 200# increase with sealers on formation. Pumped 1000 gals 70 quality foam with 1# 20/40 SPC (d) formation (d) 3250#; 2000 gals 70 quality foam with 2½# 20/40 SPC (d) formation foam with 1# 20/40 SPC (d) formation (d) 3250#; 2000 gals 70 quality foam with 2½# 20/40 SPC (d) formation; drop (d) 7/8" RCNB's in 2000 gal pad with 1700# increase with sealers on formation. Pumped 1000 gals 70 quality foam with 1# SPC (d) formation (d) 4100#; 2000 gals 70 quality foam with 2½# SPC (d) formation (d) 4000#; pumped 3½ 20/40 SPC (d) formation with pressure increase from 4000# to 7000#. SD, bled pressure back to 2000 resumed frac pressure up immediately. Bled pressure back to 1000#, resumed frac, pumped 6 bbls 70 quality foam, pressure to 6000#. ISIP 6000#, 5 min 2900#. Flow well down. Ran sand line in hol found fill 400' above SN. Bled pressure down, install BOP, unseat packer & pull 2-7/8" tubing & tools from hole. Sand found (d) 3218'. Tried to sand pump, top of sand now (d) 3258'. Will with 2-7/8" tubing (scalloped collar on bottom), found sand (d) 3225'. RU stripper head, swivel & pump truck. Circulate frac sand out of hole down to 3500'. Displace fluid in tubing; pulled 2-7/8" tubing, replaced scalloped collar with packer, went back in hole to 3225'. Loaded back side of casing with packer fluid & tested to 500#, held. Released stripper head, BOP, swivel & sand pump Swabbed. Well flowing. Closed in waiting on pipeline connection. | OTHER | |
| Area Engineer DATE 6-13-80 | <i>workj</i> see NOLE 1103. Pressure up tubing-casing annulus to 1000#; foam frac down 2-7/8" tubing follows: Establish injection rate @ 15 BPM equivalent rate with 2000 gal 1000 gals 70 quality foam with 1# 20/40 SPG (@ formation) @ 2950#; 2000 g $2\frac{1}{2}$ # 20/40 SPG @ formation; 2000 gals 70 quality foam with $3\frac{1}{2}$ # 20/40 SPG (RCNB's in 2000 gal pad with 200# increase with sealers on formation. Pur foam with 1# 20/40 SPG @ formation @ 3250 #; 2000 gals 70 quality foam wit ion @ 3300 #; 2000 gals 70 quality foam with $3\frac{1}{2}$ # 20/40 SPG @ formation; d 2000 gal pad with 1700# increase with sealers on formation. Pumped 1000 1# SPG @ formation @ 4100 #; 2000 gals 70 quality foam with $2\frac{1}{2}$ # SPG @ form 20/40 SPG @ formation with pressure increase from 4000# to 7000#. SD, b resumed frac pressure up immediately. Bled pressure back to 100#, resum quality foam, pressure to 6000#. ISIP 6000#, 5 min 2900#. Flow well dow found fill 400' above SN. Bled pressure down, install BOP, unseat packet tools from hole. Sand found @ 3218'. Tried to sand pump, top of sand n 2-7/8" tubing (scalloped collar on bottom), found sand @ 3225'. RU stri truck. Circulate frac sand out of hole down to 3500'. Displace fluid i tubing. replaced scalloped collar with packer, went back in hole to 3225 | through 3308'-3416' as ls 70 quality foam pad; gals 70 quality foam with @ formation; drop (4) 7/8' mped 1000 gals 70 quality th 2½# 20/40 SPG @ format- rop (4) 7/8" RCNB's in gals 70 quality foam with mation @ 4000#; pumped 3½/ led pressure back to 2000/ ed frac, pumped 6 bbls 70 wn. Ran sand line in hold r & pull 2-7/8" tubing & ow @ 3258'. WIH with pper head, swivel & pump n tubing; pulled 2-7/8" '. Loaded back side of |
| | ið. I hereby certify that the information above is true and complete to the best of mv knowledge and belief. | |
| | sicheo Area Engineer | <u>6-13-80</u> |
| | | DATE |

CONDITIONS OF APPROVAL, IF ANYI