

Downhole Schematic for Federal 19-16BB (PA30)



| | | | | | | | | | |
|-------------------------|---------------------|---|----------|--|--|--------------------|--------|-----------------|--|
| Project :South Piceance | | API # :05045207870000 | | Surface Location : NWNE Sec 30 T7S - R95W 6th PM | | | | | |
| Area : Parachute | | County : | | BHL : SESE-19-7S-95 W 6th PM | | | | | |
| As Of : 01/09/2012 | | GL : 5806.0 ft | | KB to GL : 22.0 ft | | KB : 5828.0 ft | | | |
| Set @ 40 | Casing Details | | | | | | | | |
| | Section | Hole | Casing | Mass | Set At | Length | Thread | Grade | |
| | Conductor | 26.000 | 16 | 42 | 40 | 40 | | A52A | |
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| Set @ 1127 | -500 ft | Surface | 12.250 | 0 | 1,127 | 2 | LT&C | Guide shoe | |
| | | | 9.625 | 36 | 1,126 | 44 | LT&C | Csg | |
| | | | | 0 | 1,082 | 3 | LT&C | Float collar | |
| | -1000 ft | | 9.625 | 36 | 1,079 | 1,052 | LT&C | Csg | |
| | | | 9.625 | 36 | 28 | 3 | LT&C | Csg pup | |
| | | | 9.625 | 36 | 25 | 3 | LT&C | Well head | |
| | | | 9.625 | 36 | 22 | 26 | LT&C | Landing jnt | |
| | -1500 ft | Production | 8.750 | 0 | 6,588 | 1 | Butt | Guide Shoe | |
| | | | 4.5 | 11.6 | 6,587 | 44 | Butt | Csng. | |
| | | | | 0 | 6,542 | 2 | Butt | Float Collar | |
| | -2000 ft | | 4.5 | 11.6 | 6,541 | 1,320 | Butt | Csng. | |
| | | | 4.5 | 11.6 | 5,221 | 22 | Butt | Marker #1,Csng. | |
| | | | 4.5 | 11.6 | 5,199 | 968 | Butt | Csng. | |
| | | | 4.5 | 11.6 | 4,230 | 22 | Butt | Marker #2,Csng. | |
| | -2500 ft | | 4.5 | 11.6 | 4,208 | 4,179 | Butt | Csng. | |
| | | | 4.5 | 11.6 | 29 | 5 | Butt | Mandril | |
| | | | 4.5 | 11.6 | 24 | 27 | Butt | Landing Joint | |
| | -3000 ft | Cement Details | | | | | | | |
| | Section | Sequence | Top | Density | Blend / Additives | | | | |
| | Surface | Lead | 0 | 12.5 | 12.5 G Lead (84bbbls) / 21056 | | | | |
| | Tail | 801 | 15.8 | 1bD907+2%D79+0.2%D46+0.25ppsD29 | | | | | |
| -3500 ft | | | | 15.8 Class G (31bbbls) / 14100lbD907+ | | | | | |
| | | | | 0.75%S001+0.2%D046+0.25ppsD29 | | | | | |
| -4000 ft | Production | Scavenger | 0 | 0.0 | CW100 20bbbls / | | | | |
| | Lead | Lead | 3,410 | 12.0 | 12 TXI Lead (105bbbls) / | | | | |
| | | | | | D049Cement,75.lb/skWBWOB,D079Extender,1.0%:BWOB,D013Re | | | | |
| TOC @ 3410 | | Tail | 4,449 | 13.0 | tarde,0.75%BWOB,D046Antifoam,0.5%BWOB,D029Lost Circ.. | | | | |
| | | | | | Control Agent,0.25lb/skWBWOB | | | | |
| | | | | | 13 TXI (154bbbls) / D049,Cement,75lb/sk | | | | |
| | | | | | WBWOB,D020,Extender,3.0%BWOB,D112,Fluid Loss, | | | | |
| | | | | | 0.2%BWOB,D013,Retarder,0.4%BWOB,D046,Anti | | | | |
| | | | | | Foam,0.5%BWOB,D029,Lost Circ. Control Agent,0.25lb/sk | | | | |
| | | | | | WBWOB, | | | | |
| | | Conductor | Fill | 0 | 0.0 | 4 yards redi-mix / | | | |
| | | Tubing and Downhole Equipment | | | | | | | |
| | | O.D. | Length | Depth | Description | | | | |
| | 0.000 | 20.00 | 20.00 | KB - 2.00 | | | | | |
| | 4.063 | 0.82 | 20.82 | 4 1/16" 5 K Wood Group HGR | | | | | |
| | 2.628 | 0.67 | 21.49 | Saver Sub | | | | | |
| -4500 ft | 2.375 | 5,806.16 | 5,827.65 | 177 jts 2 3/8" J-55 4.7# Eue Tbg | | | | | |
| | 3.063 | 0.97 | 5,828.62 | F- Nipple 1.81 | | | | | |
| | 2.375 | 32.85 | 5,861.47 | 1 jt 2 3/8" J-55 4.7# Eue Tbg | | | | | |
| | 3.063 | 0.92 | 5,862.39 | POBS top 1/2 | | | | | |
| | 3.250 | 1.23 | 6,539.00 | POBS btm 1/2, 3 3/4 bit | | | | | |
| Stage 7 | Perforations | | | | | | | | |
| | Stage 1 | | | | | | | | |
| | Date | From | To | Shots | | 5,504 | 5,505 | 3 | |
| | 12/05/2011 | 6,402 | 6,403 | 3 | | 5,468 | 5,469 | 3 | |
| | | 6,344 | 6,345 | 3 | | 5,438 | 5,439 | 3 | |
| | | 6,334 | 6,335 | 3 | | 5,420 | 5,421 | 3 | |
| | | 6,308 | 6,309 | 3 | | 5,402 | 5,403 | 3 | |
| | | 6,292 | 6,293 | 3 | Stage 5 | | | | |
| | | 6,246 | 6,247 | 3 | Date | From | To | Shots | |
| | | 6,224 | 6,225 | 3 | 12/23/2011 | 5,386 | 5,387 | 3 | |
| Stage 6 | | 6,186 | 6,187 | 3 | | 5,338 | 5,339 | 3 | |
| | | 6,172 | 6,173 | 3 | | 5,312 | 5,313 | 3 | |
| | | | | | | 5,284 | 5,285 | 3 | |
| | | | | | | 5,246 | 5,247 | 3 | |
| | Stage 2 | | | | | 5,196 | 5,197 | 3 | |
| | Date | From | To | Shots | | 5,128 | 5,129 | 3 | |
| | 12/18/2011 | 6,130 | 6,131 | 3 | | 5,112 | 5,113 | 3 | |
| | | 6,116 | 6,117 | 3 | | 5,094 | 5,095 | 3 | |
| | | 6,044 | 6,045 | 3 | Stage 6 | | | | |
| | | 6,030 | 6,031 | 3 | Date | From | To | Shots | |
| | | 6,004 | 6,005 | 3 | 12/26/2011 | 5,046 | 5,047 | 3 | |
| | | 5,988 | 5,989 | 3 | | 5,030 | 5,031 | 3 | |
| | | 5,950 | 5,951 | 3 | | 4,990 | 4,991 | 3 | |
| | | 5,924 | 5,925 | 3 | | 4,970 | 4,971 | 3 | |
| | | 5,916 | 5,917 | 3 | | 4,918 | 4,919 | 3 | |
| | | | | | | 4,904 | 4,905 | 3 | |
| | Stage 3 | | | | | 4,892 | 4,893 | 3 | |
| | Date | From | To | Shots | | 4,874 | 4,875 | 3 | |
| | 12/19/2011 | 5,882 | 5,883 | 3 | | 4,860 | 4,861 | 3 | |
| | | 5,858 | 5,859 | 3 | Stage 7 | | | | |
| -5500 ft | | 5,836 | 5,837 | 3 | Date | From | To | Shots | |
| | | 5,812 | 5,813 | 3 | 12/26/2011 | 4,802 | 4,803 | 3 | |
| | | 5,798 | 5,799 | 3 | | 4,788 | 4,789 | 3 | |
| | | 5,782 | 5,783 | 3 | | 4,770 | 4,771 | 3 | |
| | | 5,766 | 5,767 | 3 | | 4,746 | 4,747 | 3 | |
| | | 5,728 | 5,729 | 3 | | 4,730 | 4,731 | 3 | |
| | | 5,688 | 5,689 | 3 | | 4,714 | 4,715 | 3 | |
| | Stage 4 | | | | | 4,674 | 4,675 | 3 | |
| | Date | From | To | Shots | | 4,646 | 4,647 | 3 | |
| | 12/21/2011 | 5,644 | 5,645 | 3 | | 4,612 | 4,613 | 3 | |
| | 5,606 | 5,607 | 3 | | | | | | |
| | 5,580 | 5,581 | 3 | | | | | | |
| | 5,550 | 5,551 | 3 | | | | | | |
| Stage 2 | Frac Summary | | | | | | | | |
| | Stage 1 | : 6,172 - 6,403, 27 - 0.340" shots, 13892 bbbls of Slickwater Report Date: 12/18/2011 | | | | | | | |
| | Stage 2 | : 5,916 - 6,131, 27 - 0.340" shots, 13358 bbbls of Slickwater Report Date: 12/19/2011 | | | | | | | |
| | Stage 3 | : 5,688 - 5,883, 27 - 0.340" shots, 15215 bbbls of Slickwater Report Date: 12/20/2011 | | | | | | | |
| | Stage 4 | : 5,402 - 5,645, 27 - 0.340" shots, 15501 bbbls of Slickwater Report Date: 12/23/2011 | | | | | | | |
| | Stage 5 | : 5,094 - 5,387, 27 - 0.340" shots, 10428 bbbls of Slickwater Report Date: 12/23/2011 | | | | | | | |
| | Stage 6 | : 4,860 - 5,047, 27 - 0.340" shots, 16143 bbbls of Slickwater Report Date: 12/26/2011 | | | | | | | |
| | Stage 7 | : 4,612 - 4,803, 27 - 0.340" shots, 22785 bbbls of Slickwater Report Date: 12/27/2011 | | | | | | | |
| | Comments | | | | | | | | |
| | SIBHP 0, 01/10/2012 | | | | | | | | |
| Stage 1 | -6000 ft | | | | | | | | |
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| Set @ 6588 | -6500 ft | | | | | | | | |
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| PBSD @ 6539 | | | | | | | | | |
| TD @ 6655 | | | | | | | | | |