

Operator: CWEI Phone: 432-682-6324 Fax 432-688-3250  
 Well: **Andrews University 32 #1** AFE: 80220/New Drilling/\$2,773,500  
 Location: 1980' FEL & FSL, Sec 32, Blk 5 ULS Lease No.: 04006-001  
 Andrews County, Texas Field: Spraberry (Trend Area)  
 CWEI WI 86% Site Supervisor: Jon Kitchens/Lariat #32  
 Description: Drilling & complete 10,500' vertical Wolfcamp/Strawn/Spraberry test

From the intersection of FM 1788 and Hwy 115 east of Andrews, go east on Hwy 115--3.9 miles.  
 Turn left (north) thru cattle guard and onto lease road to location.

**08-06-08** **Current TD – 50'; daily ftg – 50'; day# - 1;** rig reps & RU, weld drlg nipple on cond; spud well; drlg f/0-50'; conn, working on pmps & counters; EDDC \$46,627.

**08-07-08** **Current TD – 435'; daily ftg – 385'; day# - 2;** drlg f/50'-435'; WLS @ 435' = 0.63; circ hole clean – TOH; RU csg crew; RIH notched TPGS + 1 jt 13.375" 48 ppf H40 STC + float collar \_ 1 jts 13.375" 48 ppf H40 STC, dlr lowered traveling block onto top of csg jt; att to make up 2<sup>nd</sup> csg jt into float collar – threads fouled, LD 2 jts csg; prep for 2<sup>nd</sup> att to run csg; RIH notched TPGS + 1 jt 13.375" 48 ppf H40 STC + float collar + 1 jt 13.375" 48 ppf H40 STC; EDDC \$34,700; ETDC \$81,327.

**08-08-08** **Current TD – 435'; daily ftg – 0'; day# - 3;** tg w/csg shoe @ 90" KB – pmp via csg to wsh/wrk csg – no progress; POH w/csg; TOH w/csg; TIH w/17.50" bit + DC's to TD 435' – circ hole/pmp 80 vis sweep to clean hole; circ/clean hole; TOH w/no drag; RIH w/csg – tg @ 90' KB – att to wsh/wrk csg; att to rot csg; POH w/csg; TIH w/17.500" bit + BS + 17.5000" IBS + 3 DC's – tg/take 5K #s wt @ 90'; rot/att to wrk BHA past tight spot @ 90' under rot – BHA will pass thru tight spot w/o rotation; TOH w/1 DC – BHA will pass with no rot – rot causes extreme reactive torque; TOH w/2 DC's – PU Kelly – bit + BS + IBS causing extreme reactive torque under rot inside 20" cond pipe; LD 17.500" IBS – prep to TIH w/bit on slick BHA to chk cond under rot w/o IBS; EDDC \$53,150; ETDC \$134,477.

**08-09-08** **Current TD – 435'; daily ftg – 0'; day # - 4;** TIH bit + BS – make stops @ 35' + 66' + 90' – rot/reciprocate w/no torque/drag; TOH – order 17.500" RR + 14.750" RR; WO 17.500" RR; TIH w/17.5000" bit + 17.500" RR + 2.8000" DC – BHA 76.07' – tg @ 86' take 5K#s wt; rm f/76'-116' ; torque moderate – PU single 8.000" DC – BHA 106.61' – no drag; rm f/106'=237'- normal, PU 3.6000" DCs; EDDC \$21,450; ETDC \$155,927.

**08-10-08** **Current TD – 435'; daily ftg – 0'; day# - 5;** rmg to btm f/237' w/17.5000" bit + 17.500" RR – normal rmg; circ hole clean, vis 60 sec/ltr in system; TOOH LD 9 – 6" DC's, no drag coming out of hole; rmg out of hole, normal, LD 1 jt DC at a time; running 13.375" 48# csg, tg @ 90', rot csg w/pwr tongs, csg passes after ¼ turn, run all csg available, 2 jts short because of damage of threads; WO csg; EDDC \$25,400; ETDC \$181,327.

**08-11-08** **Current TD – 435'; daily ftg – 0'; day# - 6;** MW – 8.5; Vis – 32; Circ hole & WO csg, system visc 60 sec/ltr; RU csg crew & RIH w/11 jts 13.375" 48.0 PPF H40 STC csg – csg details as follows: notched TPGS + 1 jt 13.375" 48.0 PPF H40 STC + float collar + 10 jts 13.375" 48.0 PPF H40 STC csg; csg run complete – no probs – RD casers, RU Halliburton – beg cmt job – pmp cmt via csg the following: lead 120 sx Halcem-C + 2.0% FW .025#s X-Pheno Seal + 4% gel (13.6/1.71/8.95) tail 340 sx Halcem-C + 2% calcium chloride, displace top rubber plug w/61 BFW – land plug w/1247 PSI @ 1256 hrs, floats ok – circ 20 sx cmt to surf, RD Halliburton; cmt job complete; WOC; att slip on type 'A' section to csg – 'B' section 19" – slip over 4" fin cut made 41" BGL to ensure top of 'B' section @ GL – tst 500 PSI; NU Monahans NU Svc, tst BOP 1000 PSI w/rig pmps; EDC \$58,000; ETC \$239,327.

**08-12-08** **Current TD – 715'; daily ftg – 280'; day# - 76;** MW – 10; Vis – 29; RU FL, chk manif, kill lines, accum, function tst BOP; tst BOP to 1000 PSI – ok; serv rig; hang blocks & CS 111' DL w/995 ton miles; make up BHA & TIH – brk last 2 stds in singles; drl "wash-up" cmt f/351'-396' – DO plug @ 396' – DO cmt f/396'-435'; EDC \$47,225; ETC \$286,552.

**08-13-08** **Current TD – 2085'; daily ftg – 1370'; day# - 8;** MW – 10; Vis – 28; CI - 182000; drlg f/715'-2085'; dev surv @ 922' = .60, @ 1418' = .63, @ 1921' = .47; EDC \$21,690; ETC \$308,242.

**08-14-08** **Current TD – 3051'; daily ftg – 966'; day# - 9;** MW – 10.1; Vis – 31; CI - 162000; drlg f/2086'-3051'; surv @ 2417' = .96 deg & 2918' = .58 deg; EDC \$33,874; ETC \$342,116.

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08-15-08 **Current TD – 3695'; daily ftg – 644'; day# - 10;** MW – 10.2; Vis – 32; CI – 160000; drlg f/3051'-3695'; surv @ 3419' = .52 deg; EDC \$19,272; ETC \$361,388.

08-16-08 **Current TD – 4518'; daily ftg – 823'; day # - 11;** MW – 10.2; Vis – 32; CI – 160000; drlg f/3695'-4518'; dev surv @ 3917' = .52 deg @ 4415' - .62 deg; EDC \$22,222; ETC \$383,238.

08-17-08 **Current TD – 4975'; daily ftg – 457'; day# - 12;** MW – 10.1; Vis – 35; CI – 178000; drlg f/4518-4975'; ran fluid caliper log @ 4900', switched mud f/res to the steel pits & started mud up for TD; pmp sweep, circ & cond hole; EDC \$20,307; ETC \$403,545

08-18-08 **Current TD – 4975'; daily ftg – 0'; day# - 13;** MW – 10.2; Vis – 45; CI – 180000; circ & cond hole; dev surv @ 4935' = ½ deg; TOH for wiper trip to shoe @ 435; reps to brkn tong line; TOH hole was tight @ 1701', wrk pipe out of hole, LD 1 jt; PU Kelly & pmp out of hole, LD 1 more jt & cont to pmp out of hole, rmd jts back dwn, pulled 6 stds, hole got tight again @ 1200', wrk 3 jts ou of hole, pipe pulled free the rest of way to shoe; PU Kelly & pmp thru collars; TIH to circ & cond hole for csg; LD bad jt & chg saver sub on Kelly; wsh thru tight spots @ 1300'; EDC \$21,901; ETC \$425,446

08-19-08 **Current TD – 4975'; daily ftg – 0'; day# - 14;** MW – 10.2; Vis – 45; CI – 180000; wshg dwn tight hole @ 1300', 1500', 1800'; TIH to circ & cond hole for csg; hole tight @ 4925', wrk stuck pipe up hole to LD jt & PU Kelly, PU Kelly, brk circ & pipe pmpd free; wsh 4925'-4975'; raised visc on mud in syst & hole to 42 visc & added starch for wtr, lost control, pmpd 2 - 75+ visc sweeps to clean & cond hole, mixed & spotted 75+ vis pill @ TD before coming out of hole for interm csg; TOH for interm 8-5/8 csg; EDC \$58,889; ETC \$484,335

08-20-08 **Current TD – 4975'; daily ftg – 0'; day# - 15;** MW – 10.2; Vis – 45; CI – 180000; TOH for intermediate, some drag thru shale sects, 10-20K; rep to tong line; TOH for intermediate, no drag thru beds, LD rmrs, shock sub & 2 – 8" CLRS; RU casers to run 8-5/8 intermediate; run 8-5/8 csg stacked out @ 1300', wshd jt dwn & circ csg, wrkd csg dwn for next 500' came out of tight hole @ 1800', cont to TD w/csg; EDC \$63,648; ETC \$547,983

08-21-08 **Current TD – 4975'; daily ftg – 0'; day# - 16;** MW – 10.2; Vis – 45; CI – 180000; run csg TD 4974' washed dwn last 30'; circ and RD casers; RU Halliburton to cmt 8-7/8" interm w/1200 sx lead, 205 sx tail; good returns; bump plug @ 1725; circ 75 sx to pit; WOC; jet and clean pits and BOP; ND set slips; cut off; NU and tst BOP; replace tong lines for trip; NU and tst BOP; replace tong liners for trip; misc. rig repairs; TIH w/DC and new BHA; EDC \$87,078; ETC \$635,061.

08-22-08 **Current TD – 5126'; daily ftg – 151'; day# - 17;** MW – 8.5; Vis – 28; CI – 3800; TIH w/BHA #2; slip DL; TIH w/DP to tg cmt & tst csg; brk circ & tst csg on pipe rams @ 1000 PSI, 30 mins; wsh to plug & drl plug & float collar, cmt hard; drlg f/4975'-5126'; inst drive bushings for rot head; EDC \$45,905; ETC \$680,966.

08-23-08 **Current TD – 6092'; daily ftg – 966'; day# - 18;** MW – 8.5; Vis – 28; CI 2800; drlg f/5126'-6092'; dev surv @ 5459' = .44, ran 2' of sweep f/slug pit Kelly before surv; EDC \$21,272; ETC \$702,238.

08-24-08 **Current TD – 7090'; daily ftg – 998'; day# - 19;** MW – 8.5; Vis – 29; CI – 3800; drlg f/6092'-7090'; surv @ 6146' = ½ deg, pmp sweep before surv; surv @ 6648' = 1, pmp sweep & circ before surv; EDC \$18,900; ETC \$721,138.

08-25-08 **Current TD – 7420'; daily ftg – 230'; day# - 20;** MW – 10; Vis – 30; CI – 175000; drlg f/7090'-7420'; surv @ 7144' = ½ deg; EDC \$22,853; ETC \$743,991.

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08-26-08 **Current TD – 7420'; daily ftg – 0'; day# - 21;** MW – 10; Vis – 30; CI – 175000; TOH, string parted below box on DP leaving 841' fish in hole consisting of BHA, 3 stds & single of DP w/4-1/2" tube looking up; strap fishing tools & 6 – 6" DC, pick them up & RIH w/6 DC, jars, accelerator, overshot & skirt; TIH w/fishing BHA & DP to top of fish; swallow fish w/overshot, over pull & set of jars, fish popped free, OS set; POH w/fish, use spinner wrench to spin out; LD fishing tools & rel fisherman; run 6" fishing collars back in hole & LD, pull BHA out & std back to inspect bit & collars; EDC \$49,088; ETC \$793,079.

08-27-08 **Current TD – 7716'; daily ftg – 296'; day# - 22;** MW – 10; Vis – 30; CI – 175000; POOH; make up bit/dress new rot rubber; TIH wsh 20' to btm; drlg f/7420'-7716'; WLS @ 7644' = 2.5 deg; EDC \$250,588; ETC \$1,243,867.

08-29-08 **Current TD – 8618'; daily ftg – 608'; day# - 24;** MW – 10; Vis – 30; CI – 175000; drlg f/8010'-8618'; WLS @ 8424' = 2.04; EDC \$55,088; ETC \$1,145,943.

08-30-08 **Current TD – 8885'; daily ftg – 267'; day# - 25;** MW – 10; Vis – 30; CI – 175000; drlg f/8618'-8835'; build LCM pill; pull into csg; TIH; EDC \$55,088; ETC \$1,199,731.

08-31-08 **Current TD – 9440'; daily ftg – 545'; day# - 26;** MW – 10; Vis 30; CI – 175000; TIH; PU Kelly, brk circ; wsh 3 jts – tight spot; TIH, lay out 2 jts; PU, Kelly wsh 60' to btm; drlg f/8958'-9440'; chg rot head; WLS @ 8819' = .22 deg; EDC \$78,937; ETC \$1,301,217.

09-01-08 **Current TD – 10,025'; daily ftg – 585'; day# - 27;** drlg f/9440'-10,025'; WLS @ 9419' = 1.09, @ 9914' = 1.04, @ 8819' = .22; chg rot gasket; EDC \$79,937; ETC \$1,378,854.

09-02-08 **Current TD – 10,448'; daily ftg – 423'; day# - 28;** drlg f/10,025'-10,448'; lubr rig; spot pill on btm/TOH for bit; EDC \$83,701; ETC \$1,466,019.

09-03-08 **Current TD – 10,500'; daily ftg – 52'; day# - 29;** MW – 9.5; Vis – 33; CI – 96000; TOH for bit #5; TIH w/BHA, 2 stds of DP bit #5, brk circ every 50 stds; brk in bit, lots of gas coming back @ pits, pill f/TD brought back minor cuttings; drlg f/10448'-10500'; dev surv @ 10442' = 1.5 degs; EDC \$23,867; ETC \$1,489,866.

09-04-08 **Current TD – 10,980'; daily ftg – 480'; day# - 30;** MW – 9.2; Vis – 32; CI – 7400; drlg f/10500'-10980'; EDC \$31,885; ETC \$1,178,692.

09-05-08 **Current TD – 11,192'; daily ftg – 184'; day# - 31;** MW – 8.9; Vis – 30; CI – 4000; dev surv @ 10968' = 1.45 degs; drlg f/11008'-11192'; TOH for bit #6, ROP drpd too low; EDC \$30,290; ETC \$1,208,982.

09-06-08 **Current TD – 11,350'; daily ftg – 127'; day# - 32;** MW – 8.9; Vis – 30; CI – 40000; TOH w/bit #5; LD rmrs; TIH w/bit #6; fill pipe circ out gas; wsh to btm & brk in new bit; drlg f/11223'-11350'; EDC \$18,900; ETC \$1,227,882.

09-07-08 **Current TD – 11,470'; daily ftg – 120'; day# - 33;** MW – 8.9; Vis – 30; CI – 40000; drlg f/11350'-11470'; circ & cond hole; spot pill @ TD 70 Bbls; TOH for logs; RU loggers; EDC \$28,675; ETC \$1,256,557.

09-08-08 **Current TD – 11,470'; daily ftg – 0'; day# - 34;** RU loggers; H2S on floor; loggers running to btm calibrating tool; logs stack out @ 11447'; PU tools and start logging tool stuck @ 11423'; work tool; tool totally stuck @ 11421'; pulled max over allowed –no movement; WO fishing tools; work logging tool again while WO fishing tools; tool came loose; came out; logging some drag on tool; logging OK; logged hole w/Halliburton logging; RD loggers; truck broke dwn; LD line manually; TIH to circ for csg; brk circ every 50 stds; well still flwg; hauling wtr all day; EDC \$29,928; ETC \$1,286,485.

09-09-08 **Current TD – 11,470'; daily ftg – 0'; day# - 35;** MW – 8.7; Vis – 32; CI – 20000; TIH to circ for csg; wsh to TD 25' of fill; circ, pmpg MF 55 sweeps every ½ hr, pmpd 4 gel sweeps 1 every 1-1/2 hrs, lots of shale rets over shakers, WO LD mach & cat; RU LD trk, spot pill; LD DP & DC; spot pill across zone that is flwg 7500-6500; EDC \$428,682; ETC \$1,704,139.

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09-10-08 **Current TD – 11,470'; daily ftg – 0'; day# - 36;** MW – 8.7; Vis – 32; CI – 20000; LD DP & DC; RU csg crew; running 5-1/2" csg, fill every 60 jts; RU cmtg crew 1<sup>st</sup> stg; bmpd plug – holding; drop bomb open DV tool & circ for 2<sup>nd</sup> stg; WOC for 2<sup>nd</sup> stg; EDC \$74,645; ETC \$1,778,784.

09-11-08 **Current TD – 11,470'; daily ftg – 0'; day# - 37;** Cmt 2<sup>nd</sup> stg; plug dwn @ 1200; **rig relsd @ 2400 hrs;** EDC \$28,462; ETC \$1,807,246.

10-02-08 Rig stacked; Waiting on rig to move out Friday; ETC \$1,807,246.

10-06-08 MI RU PU SD; ETC \$1,807,246

10-07-08 MI RU PU level location w/backhoe; set anchors; RU PU; set pipe racks and catwalk; UL 11,500' 2-7/8" N-80 8rd EUE tbg; PU 4-5/8" rock bit, bit sub and scraper; tally & TIH w/134 jts tbg; SION; prep to finish TIH w/tbg; DO DV tool; TIH & CO to float shoe; pickle tbg; EDC \$6360; ETC \$1,813,606.

10-08-08 AOL; finish tally & TIH w/tbg; tag cmt on top of DV tool @ 7484' KB; RU swivel and reverse unit; DO DV tool and make several passes past w/scraper; tally tbg & PU and finish TIH to float; tagged up @ 11,370' & CI to 11,402' KB; circ clean; RD swivel and reverse unit; RU Rising Star acidizers and pickle tubulars w/1500 gals double inhibited NEFE 15% HCL; POH w/8 jts spot 714 gals acetic acid from 10,884' – 10,170'; RD Rising Star; SION; prep to POH w/tbg. EDC \$21,210; ETC 1,846,776.

10-09-08 AOL; finish POH w/tbg; SION; prep to RU Enertech WL Services; run GR-CNL-CBL then run CCL-GR perf guns;. EDC \$3850; ETC \$1,850,626.

10-10-08 AOL; RU Enertech WL; TIH w/CNL-GR-CCL-CBL; tg PBTD @ 11,387' & begin logging; ran CNL 500' off btm & ran GR-CCL-CBL to 2850'; TOC @ 3060'; LD logging tools; PU 2 – 10' perf guns & perf 11,348'-11,358' & 11,354'-11,368' w/2 JSPF; POOH RD Enertech; PU 5-1/2"x2-7/8" pkr & TIH & set pkr @ 10,134'; circ 24 Bbls csg to put acd in tbg; press up & hold 500# on csg; beg pmpg into form @ 89 BPM & 4500#; pmpd 50 Bbls; press stayed @ 4500#, 80 BPM; did not see any acd brk; ISIP 4500#, 5 mins 4400#, 10 mins 4350#, 15 mins 4350#; SIW; RD pmp trk; SDFN; EDC \$13,500; ETC \$1,864,126.

10-11-08 AOL; 0# press; beg swbg; IFL – surf; made 4 runs; rec'd 27 BW; EFL – 3100'; RD swb; RU Cudd Press Svcs; rel pkr; TIH to 11,174'; spot 48 Bbls 20% NEFE HCL w/60 ball sealers; POOH w/tbg to 10,144' & pmp 15 BW dwn csg to put acd in tbg; set pkr w/20K compression; beg pmpg acd; brk dwn form @ 3780# 3 BPM; incrsd rt to 5.4 BPM 5660#; saw some ball action; surged balls off; fin pmpg acd & flushed to btm perfs; ISIP 4582#, 5 mins 4382#, 10 mins 4270#, 15 mins 4150#; RD Cudd; flw bck f/1 hr; RU swb; IFL 1200', EFL 10,144'; wait 30 mins; had 400' fluid entry; SIW; SDFN; EDC \$17,100; ETC \$1,881,226.

10-12-08 AOL; slight blw on tbg; beg swbg; IFL 7800'; 1<sup>st</sup> run made 0 fluid; cups torn up; chgd cups; 2<sup>nd</sup> run swb line parted; RD swb; POOH & LD tbg; Cudd Sand Masters AOL & sd haulers started filling; had to wait for sd haulers to fin unloading; RD MO PU; EDC \$9500; ETC \$1,890,726.

10-13-08 RU Cudd Press Svcs & beg 16 stg frac; had to get dozer to pull sd haulers to loc; EDC \$8200; ETC \$1,898,926.

10-14-08 Cont frac; still pulling sd haulers in; EDC \$5800; ETC \$1,904,726.

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10-15-08 Fin 16 stg frac: Stg#1 – perf 10,206'-10,934', acdz w/2000 gals 10% NEFE HCL & frac w/100,138 gals; cross linked gel & 110,000# 20/40 SLC sd; Stg#2 – Set CBP @ 10,160' & perf 10,100';- 10,120'; acdz w/2000 gals 10% NEFE HCL & frac w/70,226 gals cross linked gel & 80,000# 20/40 SLC sd; Stg#3 – set CBP @ 10,060' & perf 10,010'-10,030'; acdz w/2000 gals 10% NEFE HCL & frac w/80,295 gals cross linked gel & 90,000# 20/40 SLC sd; Stg#4 – set CBP @ 9980' & perf 9940'-9960'; acdz w/2000 gals 10% NEFE HCL & frac w/70,742 gals cross linked gel & 80,000# 20/40 White Ottawa sd; Stg#5 – set CBP @ 9900' & perf 9482'-9878'; acdz w/4000 gals 10% NEFE HCL & frac w/171,003 gals cross linked gel & 180,000# 20/40 White Ottawa sd; Stg#6 – set CBP @ 9430' & perf 9214'-9234'; acdz w/2000 gals 10% NEFE HCL & frac w/41,320 gals cross linked gel & 60,000 20/40 White Ottawa sd; Stg#7 – set CBP @ 9160' & perf 8890'-9070'; acdz w/2000 gals 10% NEFE HCL & frac w/51,476 gals cross linked gel & 72,000# 20/40 White Ottawa sd; Stg#8 – set CBP @ 8810' & perf 8710'-8730'; acdz w/2000 gals 10% NEFE HCL & frac w/71,822 gals cross linked gel & 96,000# 20/40 White Ottawa sd; Stg#9 – set CBP @ 8560' & perf 8356'-8376'; acdz w/2000 gals 10% NEFE HCL & frac w/41,984 gals cross linked gel & 60,000# 20/40 White Ottawa sd; Stg#10 – set CBP @ 8290' & perf 8210'-8230'; acdz w/2000 gals 10% NEFE HCL & frac w/92,072 gals cross linked gel & 120,000# 20/40 Brady sd; Stg#11 – set CBP @ 8170' & perf 8120'-8140'; acdz w/2000 gals 10% NEFE HCL & frac w/62,218 gals cross linked gel & 84,000# 20/40 Brady sd; Stg#12 – set CBP @ 8030' & perf 7970'-7990'; acdz w/2000 gals 10% NEFE HCL & frac w/112,443 gals cross linked gel & 144,000# 20/40 Brady sd; Stg#13 – set CBP @ 7890' & perf 7740'-7760'; acdz w/2000 gals 10% NEFE HCL & frac w/132,755 gals cross linked gel & 210,000# 20/40 Brady sd; Stg#14 – set CBP @ 7630' & perf 7420'-7440'; acdz w/2000 gals 10% NEFE HCL & frac w/92,843 gals cross linked gel & 150,000# 20/40 Brady sd; Stg#15 – set CBP @ 7370' & perf 7330'-7350'; acdz w/2000 gals 10% NEFE HCL & frac w/133,038 gals cross linked gel & 180,000# 20/40 Brady sd; Stg#16 – set CBP @ 7210' & perf 7130'-7150'; acdz w/2730 gals 10% NEFE HCL; RD Cudd Press Svcs & Enertech WL; SIW WOR; EDC \$875,700; ETC \$2,780,426.

10-16/17-08 Well SI, WOR; EDC \$4800; ETC \$2,785,226.

10-20-08 Well SI, WOR; start re-bldg loc after frac job.

10-21-08 Well SI, WOR; fin re-bldg loc.

10-22-08 Well SI, WOR; ETC \$2,785,226.

10-27-08 Open well to test tank, blew down & died ETC \$2,790,601

10-28-08 Well open to test tank; well dead ETC \$2,792,476

10-29-08 Well dead; WOR released flow back manifold; MI frac tanks & test tanks to produce jet pump into ETC \$2,794,351

10-30-08 Move & set pipe racks & catwalk; racked tbgs., set 2 anchors to replace 2 cut off by dozer; MU&RU PU, ND frac valve & cross; NU BOP, talley tbgs. & TIH w/197 jts.; SWI; SDFN; tomorrow: TIH w/tbgs. & begin DO CBP's ETC \$2,796,426

10-31-08 AOL P/U & TIH w/ tbgs. Tag sand on top plug @ 7210'. Wash out sand & DO plug. Well flowing w/ 1200#. Let well flow 2 hrs. Pumped 30 bbls. 10# brine to kill tbgs. Installed flow stub. TIH to plug @ 7380'. Wash sand of top of plug. DO plug. Well started flowing w/ 800#. Let pressure flow off. POOH w. tbgs. Above perfs. SIW SDFWE Monday; Continue DO CBPs. ETC \$2,796,426

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11-03-08 AOL; CP 520#; bled well down; TIH w/11 jts; tg sd @ 7619'; fin DO 2<sup>nd</sup> plug; pushed plug to sd on top of 3<sup>rd</sup> plug @ 7649' & DO; pushed 3<sup>rd</sup> plug to top of sd @ 7868'; wshd sd off plug & DO 4<sup>th</sup> plug; pushed plug down to sd on top of plug @ 7909'; fin DO 3<sup>rd</sup> plug & wsh sd off top of 5<sup>th</sup> plug @ 8057'; DO 5<sup>th</sup> plug & pushed down to sd on top of 6<sup>th</sup> plug @ 8190'; fin DO 5<sup>th</sup> plug & wsh sd off top of 6<sup>th</sup> plug & DO 6<sup>th</sup> plug; pushed 6<sup>th</sup> plug to sd on top of 7<sup>th</sup> plug @ 8318'; fin DO 6<sup>th</sup> plug & wsh off sd on top of 7<sup>th</sup> plug & DO; pushed 7<sup>th</sup> plug to sd on top of 8<sup>th</sup> plug @ 8580'; fin DO 7<sup>th</sup> plug & wsh sd off top of 8<sup>th</sup> plug & DO; pushed 8<sup>th</sup> plug to sd on top of 9<sup>th</sup> plug @ 8819'; fin DO 8<sup>th</sup> plug & wsh sd off top of 9<sup>th</sup> plug & DO; circ well clean; POOH w/50 jts tbg to above perms; left well flwg to TT overnight on 26/64" chk @ about 60 BPH; recd 600 BW; 35,829 BLWTR; ETC \$2,796,426

11-04-08 AOL; 400# csg; RIH w/tbg; tg sd @ 9153'; fin DO 9<sup>th</sup> plug; wshd sd off top of 10<sup>th</sup> plug @ 9177'; DO 10<sup>th</sup> plug; pushed down to top of sd @ 9435'; fin DO 10<sup>th</sup> plug; TIH to top of sd on top of 11<sup>th</sup> plug @ 9449'; DO 11<sup>th</sup> plug; pushed plug to top of sd on 12<sup>th</sup> plug @ 9919'; fin DO 11<sup>th</sup> plug; wsh sd to top of 12<sup>th</sup> plug; DO 12<sup>th</sup> plug; circ well clean; POOH above perms; left well flwg overnight on 26/64" ck; recd 2600 BLW; 33229 BLWTR; ETC \$2,796,426

11-05-08 AOL 300# csg; blew well down. TIH & tag sand @ 9975'; finish DO 12<sup>th</sup> plug; push plug down to sand on top of 13<sup>th</sup> plug @ 9999' DO 13<sup>th</sup> plug & pushed down to top of sand on 14<sup>th</sup> plug @ 10,079'; wash off sand & DO 14<sup>th</sup> plug; pushed down to sand on top of 15<sup>th</sup> plug 10,179'; wash out sand & DO plug; pushed plug down to 11,358'; finished DO out plug & clean out sand to 11,403'; circulate well clean; POOH w/ 130 jts to above perms; left well flowing to test tank on 24/64" choke; tomorrow: finish POOH prep. To run jet pump ETC \$2,807,556

11-06-08 AOL 200# csg; 24/64" choke recovered 575 blw; blew well down; shut down 2 ½ hrs to jrepair brakes on rig; pumped 110 bbls; 10# brine to kill well; finish POOH w/ tbg; TIH w/ 130 jts; Tbg; P/U pkr; & bottom hole assembly f/ jet pump & RIH w/ 154 jts. Tbg SIW SDFN tomorrow; finish RIH tbg hook up jet pump. ETC \$2,820,656

11-06-08 AOL 200# csg; 24/64" choke recovered 575 blw; blew well down; shut down 2 ½ hrs to repair brakes on rig; pumped 110 Bbls; 10# brine to kill well; finish POOH w/ tbg; TIH w/ 130 jts tbg; P/U pkr; & bottom hole assembly f/ jet pump & RIH w/ 154 jts tbg; SIW SDFN tomorrow; finish RIH tbg hook up jet pump; ETC \$2,820,656

11-07-08 AOL; 200# TP CP 0#; pmpd 30 Bbls 10# brine to kill well; finish TIH w/tbg; ND BOP; NU BOP; set pkr @ 6947' KB w/18 pts compr; wait 2 hrs f/Weatherford jet pmp tech; dropped SV and jug tstd well to 500# f/10 mins; RD MO PU; circ well while surface eqmpt is HU; dropped jet pmp @ 4 p.m.; on btm @ 4:35 p.m.; press up to 2600#; could not run pmp due to electric problems; left well flwg overnight; prep to fix electrical; EDC \$7580

11-08-08 AOL; met electricians; found lightning arrestor on fuse bank and in pmp panel blown; repaired arrestors and turned on pmp; press up to 2600# and watched all day; no other problems; rec 1060 BW; BLWTR 31,859; EDC \$1700

11-09-08 Rec 820 BLW; BLWTR 31,779; EDC \$1500

11-10-08 Recd 900 BLW; 30,879 BLWTR; EDC \$4175; ETC \$2,835,611.

11-11-08 Pmpg w/jet pmp; made 472 BW in +/- 12 hrs; pwr end on pmp down; Weatherford wrkg on this am; BLWTR 30,407; EDC \$4000; ETC \$2,839,611.

11-12-08 Repaired jet pmp pwr end @ 5:30pm, 11/11; produced 479 BW on jet pmp; BLWTR 29,928; EDC \$4000; ETC \$2,839,611.

11-13-08 Recd 933 BW; BLWTR 28,995; ETC \$2,839,611.

Operator: CWEI Phone: 432-682-6324 Fax 432-688-3250  
 Well: **Andrews University 32 #1** AFE: 80220/New Drilling/\$2,773,500  
 Location: 1980' FEL & FSL, Sec 32, Blk 5 ULS Lease No.: 04006-001  
 Andrews County, Texas Field: Spraberry (Trend Area)  
 CWEI WI 86% Site Supervisor: Jon Kitchens/Lariat #32  
 Description: Drilling & complete 10,500' vertical Wolfcamp/Strawn/Spraberry test

11-14-08 Recd 990 BW  
 11-15-08 Recd 999 BW  
 11-16-08 Recd 455 BW; jet pmp probs, BO; BLWTR 26,551;  
 ETC \$2,839,611.  
 11-17-08 Pmp dwn, BO; BLWTR 26,551;  
 ETC \$2,839,611.  
 11-18-08 Recd 415 BW; BLWTR 26,136;  
 ETC \$2,839,611.  
 11-19-08 Recd 1079 BW; BLWTR 25,057;  
 ETC \$2,839,611.  
 11-20-08 Rec 589 BW; BLWTR 24,918;  
 ETC \$2,839,611.  
 11-21-08 Rec 755 BW; venting gas, dwn 10 hrs  
 11-22-08 Rec 516 BW  
 11-23-08 Rec 470 BW; BLWTR 23,177  
 11-24-08 Pmpd 52 BO + 470 BW; BLW 35,829; BLWR 13,122; BLWTR 22,707; 37% BLWR; BLWTR  
 22,707; could have BS&W in oil  
 11-25-08 Pmpd 0 BO + 54 BW + 0 MCF; could have BS&W in oil  
 11-26-08 Pmpd 47 BO + 543 BW; could have BS&W in oil  
 11-27-08 Pmpd 50 BO + 550 BW; could have BS&W in oil  
 11-28-08 Pmpd 51 BO + 470 BW; could have BS&W in oil  
 11-29-08 Pmpd 54 BO + 428 BW; could have BS&W in oil  
 11-30-08 Pmpd 55 BO + 430 BW; BLW 35,829; BLWR 15,597, BLWTR 20,232; 44% BLWR; could have  
 BS&W in oil  
 12-01-08 Pmpd 74 BO + 215 BW; BLW 35,829; BLWR 15,812, BLWTR 20,017; 44% BLWR.  
 12-02-08 Pmpd 54 BO + 434 BW; BLW 35,829; BLWR 16,246, BLWTR 19,583; 46% BLWR  
 12-03-08 Pmpd 222 BO + 290 BW; BLW 35,829; BLWR 16,536, BLWTR 19,293; 46% BLWR; could have  
 BS&W in oil  
 12-04-08 Pmpd 0 BO + 300 BW; BLW 35,829; BLWR 16,836, BLWTR 18,993; 47% BLWR; pulled wtr off  
 tnk; could have BS&W in oil  
 12-05-08 Pmpd 65 BO + 300 BW;; could have BS&W in oil  
 12-06-08 Pmpd 95 BO + 348 BW; could have BW&W in oil  
 12-07-08 Pmpd 60 BO + 284 BW; BLW 35,829, BLWR 17,768, BLWTR 18,061; 50% BLWR; could have  
 BS&W in oil  
 12-08-08 Pmpd 54 BO + 223 BW; BLW 35,829, BLWR 17,991, BLWTR 17,838; 50% BLWR; could have  
 BS&W in oil  
 12-09-08 Pmpd 89 BO + 200 BW; BLW 35,829, BLWR 18,191, BLWTR 17,638; 51% BLWR; could have  
 BS&W in oil  
 12-10-08 Pmpd 88 BO + 200 BW; BLW 35,829, BLWR 18,391, BLWTR 17,438; 51% BLWR; could have  
 BS&W in oil  
 12-11-08 Pmpd 68 BO + 70 BW; BLW 35,829, BLWR 18,461, BLWTR 17,368; 52% BLWR; could have  
 BS&W in oil  
 12-12-08 Pmpd 60 BO + 204 BW; BLW 35,829, BLWR 18,665, BLWTR 17,164; 52% BLWR  
 12-13-08 Pmpd 64 BO + 168 BW; BLW 35,829, BLWR 18,833, BLWTR 16,996; 52% BLWR  
 12-14-08 Pmp off no production; BLW 35,829, BLWR 18,833, BLWTR 16,996; 53% BLWR  
 12-15-08 Dwn, elect prob; BO @ 1pm; BLW 35,829, BLWR 18,833, BLWTR 16,996; 53% BLWR  
 12-16-08 Pmpd 0 BO + 100 BW + 0 MCF; BLW 35,829, BLWR 18,933, BLWTR 16,896; 53% BLWR  
 12-17-08 Pmpd 0 BO + 0 BW + 0 MCF; BLW 35,829, BLWR 18,933, BLWTR 16,896; 53% BLWR; dwn,  
 pulling jet pmp, prep to pmpg unit  
 12-18-08 Pmpd 0 BO + 0 BW + 0 MCF; BLW 35,829, BLWR 18,933, BLWTR 16,896; 53% BLWR; dwn,  
 pulling jet pmp, prep to pmpg unit on Monday 12/22/08.  
 12-22-08 Setting pmp unit today and running electricity; BLW 35,829, BLWR 18,933, BLWTR 16,896; 53%  
 BLWR.

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12-23-08 BO @ 4pm  
 12-24-08 Plugged up w/sd; rig on; BLW 35,829, BLWR 18,933, BLWTR 16,896; 53% BLWR.  
 12-29-08 Pmp plugged w/sd; going in to CO fill, fill approx 125-150'; BLW 35,829, BLWR 18,933, BLWTR 16,896; 53% BLWR.  
 12-31-08 Pmp plugged w/sd; prep to CO fill, fill approx 125-150'; BLW 35,829, BLWR 18,933, BLWTR 16,896; 53% BLWR.  
 01-07-09 BO after 1pm; BLW 35,829, BLWR 18,933, BLWTR 16,896; 53% BLWR.  
 01-08-09 Pmpd 17 BO + 240 BW + 0 MCF; BLW 35,829, BLWR 19,173, BLWTR 16,656; 54% BLWR.  
 01-09-09 Pmpd 0 BO + 243 BW + 0 MCF  
 01-10-09 Pmpd 0 BO + 234 BW + 0 MCF  
 01-11-09 Pmpd 0 BO + 241 BW + 3 MCF; BLW 35,829, BLWR 19,414, BLWTR 16,415; 54% BLWR.  
 01-12-09 Pmpd 0 BO + 221 BW + 5 MCF; BLW 35,829, BLWR 19,635, BLWTR 16,194; 55% BLWR.  
 01-13-09 Pmpd 0 BO + 224 BW + 6 MCF; BLW 35,829, BLWR 19,859, BLWTR 15,970; 56% BLWR.  
 01-14-09 Pmpd 0 BO + 231 BW + 7 MCF; BLW 35,829, BLWR 20,090, BLWTR 15,739; 56% BLWR.  
 01-15-09 Pmpd 17 BO + 227 BW + 4 MCF; BLW 35,829, BLWR 20,317, BLWTR 15,512; 57% BLWR.  
 01-16-09 Pmpd 3 BO + 66 BW + 0 MCF; BLW 35,829, BLWR 20,383, BLWTR 15,446; 57% BLWR; dwn w/possible RP  
 01-17-09 Dwn w/possible RP  
 01-18-09 Dwn w/possible RP; RU 1/19; BLW 35,829, BLWR 20,317, BLWTR 15,512; 57% BLWR.  
 01-19-09 Back on 10:00 a.m.; BLW 35,829, BLWR 20,317, BLWTR 15,512; 57% BLWR.0  
 01-20-09 Rec 0 BO + 206 BW; BLW 35,829, BLWR 20,523, BLWTR 15,306; 57% BLWR.  
 01-21-09 Rec 8 BO + 190 BW + 4 MCF; BLW 35,829, BLWR 20,713, BLWTR 15,116; 58% BLWR.  
 01-22-09 Rec 77 BO + 102 BW + 8 MCF; BLW 35,829, BLWR 20,815, BLWTR 15,014; 58% BLWR.  
 01-23-09 Rec 77 BO + 102 BW + 8 MCF  
 01-24-09 Rec 66 BO + 113 BW + 10 MCF  
 01-25-09 Rec 80 BO + 132 BW + 17 MCF; BLW 35,829, BLWR 21,162, BLWTR 14,667; 59% BLWR.  
 01-26-09 Rec 91 BO + 134 BW + 9 MCF; BLW 35,829, BLWR 21,296, BLWTR 14,533; 60% BLWR  
 01-27-09 Rec 88 BO + 151 BW + 10 MCF; BLW 35,829, BLWR 21,447, BLWTR 14,382; 60% BLWR.  
 01-28-09 Rec 50 BO + 233 BW + 6 MCF; BLW 35,829, BLWR 21,680, BLWTR 14,149; 61% BLWR.  
 01-29-09 Rec 69 BO + 112 BW + 1 MCF; BLW 35,829, BLWR 21,792, BLWTR 14,037; 61% BLWR.  
 01-30-09 Rec 77 BO + 121 BW + 21 MCF  
 01-31-09 Rec 72 BO + 111 BW + 10 MCF  
 02-01-09 Rec 99 BO + 102 BW + 11 MCF; BLW 35,829, BLWR 22,126, BLWTR 13,703; 62% BLWR.  
 02-02-09 Rec 74 BO + 110 BW + 10 MCF; BLW 35,829, BLWR 22,236, BLWTR 13,593; 62% BLWR  
 02-03-09 Rec 74 BO + 96 BW + 33 MCF; BLW 35,829, BLWR 22,332, BLWTR 13,497; 63% BLWR; off @ 2pm, pmp stk; rig on loc today 2/4.  
 02-04-09 Rec 19 BO + 22 BW + 12 MCF; BLW 35,829, BLWR 22,354, BLWTR 13,475; 63% BLWR; rig on loc; quit pmpg  
 02-05-09 MIRU PU; unhang well; long stroke well; could not get to pmp; POOH w/rods & pmp; found pmp scaled in; sent sample to lab (calcium carbonate); NDWH; rel TAC; NU BOPs; POOH w/2-7/8" tbg finding scale in MA & on tbg; secure well; SDFN; prep to treat scale w/acid EDC \$5000; ETC \$2,844,611  
 02-06-09 OWU; RIH w/model R pkr; set @ 7060'; PU pmp trk & pmp 1000 gals 15% NEFE w/1 dmp pari solvent; flushed w/60 Bbls 2% Kcl; POOH w/tbg & pkr; RIH w/60 stds 2-7/8" tbg; secure well; SDFN EDC \$7000; ETC \$2,851,611  
 02-07-09 OWU; FIH & tbg & TAC; ND BOP's; set TAC; NUWH; RIH rods & tbg; hang well off; NOTE: Do not run gas anchor on pmp, well had cavins desander in it; start well pmpg to tst; RDMOPU EDC \$3000; ETC \$2,854,611  
 02-08-09 Pmpd 0 BO + 129 BW + 0 MCF; BLW 35,829, BLWR 22,483, BLWTR 13,346; 63% BLWR  
 02-09-09 Pmpd 0 BO + 194 BW + 0 MCF; BLW 35,829, BLWR 22,677, BLWTR 13,152; 63% BLWR  
 02-10-09 Pmpd 66 BO + 124 BW + 0 MCF; dwn approx 8 hrs swapping pmpg units with well #16-1; BLW 35,829, BLWR 22,801, BLWTR 13,028; 36% BLWR  
 02-11-09 Pmpd 41 BO + 76 BW + 24 MCF; BLW 35,829, BLWR 22,877, BLWTR 12,952; 64% BLWR  
 02-12-09 Pmpd 69 BO + 142 BW + 32 MCF; BLW 35,829, BLWR 23,019, BLWTR 12,810; 64% BLWR



02-13-09	Pmpd 74 BO + 113 BW + 32 MCF
02-14-09	Pmpd 69 BO + 105 BW + 39 MCF
02-15-09	Pmpd 69 BO + 94 BW + 43 MCF; BLW 35,829, BLWR 23,331, BLWTR 12,498; 65% BLWR
02-16-09	Pmpd 55 BO + 121 BW + 38 MCF; BLW 35,829, BLWR 23,452, BLWTR 12,377; 66% BLWR
02-17-09	Pmpd 61 BO + 146 BW + 70 MCF; BLW 35,829, BLWR 23,598, BLWTR 12,231; 66% BLWR
02-18-09	Pmpd 63 BO + 75 BW + 65 MCF; BLW 35,829, BLWR 23,673, BLWTR 12,156; 66% BLWR
02-19-09	Pmpd 69 BO + 96 BW + 73 MCF; BLW 35,829, BLWR 23,769, BLWTR 12,060; 66% BLWR
02-20-09	Pmpd 63 BO + 99 BW + 64 MCF
02-21-09	Pmpd 77 BO + 116 BW + 83 MCF
02-22-09	Pmpd 66 BO + 97 BW + 72 MCF; BLW 35,829, BLWR 24,081, BLWTR 11,748; 67% BLWR
02-23-09	Pmpd 69 BO + 102 BW + 89 MCF; BLW 35,829, BLWR 24,183, BLWTR 11,646; 68% BLWR
02-24-09	Pmpd 69 BO + 92 BW + 102 MCF; BLW 35,829, BLWR 24,275, BLWTR 11,554; 68% BLWR;

**dropped from report**