
Operator: CWEI Phone: 432-682-6324 Fax 432-688-3250
 Well: **Andrews University 16 #1** AFE: 80218 /New Drilling/\$2,401,500
 Location: 1980' FNL & FEL, Sec 16, Blk 5, ULS Lease No.: 03990-001
 Andrews County, Texas Field: Spraberry (Trend Area)
 CWEI WI 86% Site Supervisor: Steve Evans/Lariat #32
 Description: Drl & complete 10,500' vertical Wolfcamp/Strawn/Spraberry

06-17-08 **Current TD – 299', daily ftg – 299'**; MI RU Lariat 32 5/17/08; RU; drlg f/50' -299'; survey 1-1/4 degree @ 259'; **spud 8 p.m. 6/17/08**; ETWC \$111,850.

06-18-08 **Current TD – 440, daily ftg – 108'**; summary: NU BOP-tst-TIH-DO; drlg f/332' – 440'; pmp sweep; clean hole; TOH LD bit, bit sub; RU csg crew and power tongs; run 13-3/8" csg; RD csg crew; RU Halliburton, circ while setting up same; install cmt head; tst lines to 1000#; cmt 13-3/8" csg; WOC; cut csg and install WH – test; cmt detail: lead 120 sx Halchem w/3% bentonite, 2% CaCl, phenol seal .25lbm (40#); tail 340 sx Halchem w/2% CaCl .25 blm, phenol seal (40#); circ 200 sx to reserve; EDWC \$71,450; ETWC \$183,300.

06-19-08 **Current TD – 814, daily ftg – 374'**; summary: drlg; weld on WH and tst; NU BOP; function tst stack – tst for lks 1000 /250#; PU bit & shock sub and TIH; drlg cmt to float – tst csg @ 500# for 15 min; unplug FL (combination of set cmt, big pieces of wood float and trash); DO float and shoe; drlg f/440 ' – 779'; DS 1 degree @ 739'; drlg f/779' – 811'; EDWC \$19,450; ETWC \$170,750.

06-20-08 **Current TD – 1642', daily ftg – 831'**; summary: free pt – clear pipe – drlg f/811' – 1306'; DS ¼ degree @ 1266'; SR; drl f/1306' – 1642'; work stuck pipe; WO WL and fisherman; EDWC \$47,150; ETWC \$217,900.

06-21-08 **Current TD – 1642', daily ftg – 831'**; work stuck pip; WO WL; RU WL and free pt; pull WL – RU shot; runs shots –miss fire (broken wire); reload and run shots – successful back off; pull WL; chain out of hole; RU fishing tools; unplug 3 std of DC's and run in hole; finish PU fishing tools; TIH w/6 stds DP; tag hole blockage @ 600'; PU Kelly and wash; TOH; WO bit; PU bit, bit sub; TIH w/2 stds of DC's and 8 stds of DP; PU singles and wash; hole tight mudding up; EDWC \$21,350; ETWC \$210,850; EDWC \$21,350; ETWC \$210,850.

06-22-08 **Current TD – 1642', daily ftg – 831'**; wash dwn to fish; tag fish 49' off btm; mud up & circ; pmp in high visc sweeps to clean hole; TOH to PU fishing tools; tight hole; PU Kelly and circ; TOH; EDWC \$25,850; ETWC \$236,700.

06-23-08 **Current TD – 1642', daily ftg – 0'**; PU fishing tools; TIH; tight hole – PU Kelly wsh 2 jts of DP; TIH w/3 stds; tight hole – PU Kelly wsh 4 jts DP; TIH w/5 stds; tight hole – wsh dwn to fish; pmp sweep to clean hole; screw onto fish; jar on fish – no progress; WL shot for back off – did not manual back off – could not sustain torque for shots; TO for wsh pipe; brk dwn acceluator sub; TO LD jars – left screw in sub in fish; rep rep – PU Kelly & chk swivel for damage, grease cert brk off; PU wsh pipe; EDWC \$49,750; ETWC \$111,850.

06-24-08 **Current TD – 1642', daily ftg – 0'**; PU wsh pipe & tools; TIH w/wsh pipe; tight hole, wsh dwn 3 jts DP; TIH w/wsh pipe; tight hole, wsh dwn 12 jts DP; wsh over fish; circ hi-vis pills to sweep & clean hole; TOOH; EDWC \$48,900; ETWC \$304,000.

06-25-08 **Current TD – 1642', daily ftg – 0'**; POH, unscrewed f/fish; make up overshot; TIH w/overshot; latch onto fish, top of fish 2 1438'+; jar on fish grapple pulled off; POH w/fishing tools; brk dwn overshot & WO new grapple; TIH w/overshot; latch onto fish & jar; brk out Kelly to run free-point (Kelly was 20' above table), grapple would not release; run free point, fish plugged, can't get inside for free point or back off; EDWC \$32,175; ETWC \$287,275.

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- 06-26-08 **Current TD – 1642', daily ftg – 0'**; RU dialog, ran string & SD on fill above grapple; WO orders; while torqueing pipe to shoot loose, grapple let go of fish as designed; RD dialog, PU Kelly & circ hole, mix 100+ vis pills; pmp sweep around no noticeable incr in cuttings, spot pill on btm; TOH w/overshot, no missing parts, LD fishing tools, jars & bumper sub; rig SD, no morning tour crew; right angel gearbox to rig floor bolts wallowed out & brackets brkn, WO crew; Lariat drlg super elected not to make reps @ this time; top of fish @ 1414', fish = bumper sub, screw in sub, 1 – 6" DC, 1-X over sub, 4 – 8" DC, shock sub, 11" bit, ttl length of fish – 177', end of fish @ 1591', TD @ 1642'; EDWC \$35,446; ETWC \$324,221.
- 06-27-08 **Current TD – 1642', daily ftg – 0'**; TIH w/11" bit, 4 – DC & DP to tg fish @ 1414' hole was clean no fill or bridges; circ & add 120 Bbls oil & starch 3-SX; POH to PU wsh pipe; PU 10.5 shoe & wsh pipe, make up & TIH to wsh over, ttl of 191.70' of wsh pipe; RD w/hydr probs, blown hose & loss of fluid, refill tnk, switch pmps; wshg over fish, no hole probs, 10-15 K wt on shoe, 45-50 RPM, pmp PSI 100; tighten swivel packing; wshg over @ 1555'; EDWC \$94,321; ETWC \$418,542.
- 06-28-08 **Current TD – 1642', daily ftg – 0'**; wshg over fish, fish fell to btm, follow dwn & tg bit @ 1641'; circ & clean hole; POH w/wsh pipe; rig reps on gearbox to rot table, welded brackets back on; TIH w/overshot & BHA #7; wrk overshot over fish & latch on, PU string wt + fish wt; stnd Kelly bck; POH w/fish; EDWC \$56,832; ETWC \$475,374.
- 06-29-08 **Current TD – 1715', daily ftg – 73'**; LD fish & tools, full recovery, slight mill cuts on bit f/shoe; PU 8" DC's & shock sub & RIH; TIH to 420'; circ & cond mud, running thru res pit & active pits, added 10# Brine to system to cut vis & add chlorides to the system, mix high vis pill in slug pit; RIH w/DP to LD pipe used for fishing job, LD 30 jts; TIH w/drl string to 1521', bit taking wt, PU Kelly; rm to original hole TD @ 1642'; drlg ahead f/1642'-1715'; pulled res dwn w/vacuum trks & refilled w/10# Brine to drl, having probs trying to regain 35 vis due to est volume of 1500-1700 Bbls; EDWC \$50,639; ETWC \$526,013.
- 06-30-08 **Current TD – 2059', daily ftg – 417'**; drlg f/1715'-1841'; surv @ 1799' - .56, hole sluffed off causing string to pmp out of hole after surv; hole probs, sluffing & tight hole, circ & cond mud, raise vis to 40+ wt to approx 10#; no drag on conns, hole seems to be cleaning better, no probs since mud up; EDWC \$61,555; ETWC \$587,567.
- 07-01-08 **Current TD – 2683', daily ftg – 417'**; drlg f/2059'-2683'; circ, sweep & surv @ 2301' – 1 deg; EDWC \$21,802; ETWC \$609,369.
- 07-02-08 **Current TD – 3227', daily ftg – 544'**; drlg f/2683'-3227'; surv @ 2800' – 1.86 deg; serv rig – jet sd pit & #1; serv rig & air out pmps; EDWC \$25,936; ETWC \$635,305.
- 07-03-08 **Current TD – 3520', daily ftg – 293'**; drlg f/3227'-3520'; surv @ 3298' – 1.61 deg; serv rig & jet sd trap; EDWC \$24,869; ETWC \$660,174.
- 07-04-08 **Current TD – 3880', daily ftg – 360'**; make reps to wt ind sensor; drlg f/3520'-3880'; serv rig; surv @ 3792' – 1 deg; EDWC \$21,667; ETWC \$681,841.
- 07-05-08 **Current TD – 4262', daily ftg – 382'**; drlg f/3880'-4262'; serv rig; EDWC \$21,077; ETWC \$702,918.
- 07-06-08 **Current TD – 4435', daily ftg – 173'**; drlg f/4262'-4362'; serv rig; dev surv @ 4332' – 1.26; drlg f/4362'-4411', lost approx 250 Bbls mud f/6-8pm, added 2 slug pits of 42 vis, 10# LCM mud to system getting full rets now & raising volume back up; reps to mud pmp; drlg f/4411'-4435'; #1 pmp dwn; EDWC \$21,495; ETWC \$724,413.

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- 07-07-08 **Current TD – 4518', daily ftg – 83'**; drlg f/4435'-4518'; TOH for bit #5, tight hole f/1644'-1400', wrkd out tight spots; TIH w/new Reed HP=53 Ser # LK2666; EDWC \$49,960; ETWC \$774,373.
- 07-08-08 **Current TD – 4766', daily ftg – 248'**; drlg f/4518'-4766'; EDWC \$34,419; ETWC \$808,792.
- 07-09-08 **Current TD – 4910', daily ftg – 144'**; drlg f/4766'-4910'; serv rig; circ @ TD for short trip; surv @ 4810' = 1.07 deg; short trip 11 stds; circ & pmp sweep to clean hole for csg; EDWC \$21,201; ETWC \$830,993.
- 07-10-08 **Current TD – 4910', daily ftg – 0'**; circ for csg job; TOH for csg; RU to PU & run 8-5/8 intermediate; running 8-5/8 csg; RU cmtrs & wait for bulk cmt to arrive; EDWC \$30,494; ETWC \$861,487.
- 07-11-08 **Current TD – 4910', daily ftg – 0'**; WO cmt to arrive, circ hole; sfty mtg, tst lines to 3000 PSI, ok; cmt 8-5/8, 1000 sx lead 250 sx tail, good rets, circ 6 Bbls to pits, PD @ 1530; WOC, clean pits, ND; while setting slips, csg parted; set BOP dwn & nipple it back up; pull parted csg, pulled 3 jts, ttl of 132.61' TOC @ 4778' KB, last jt of csg out of hole had a collar on the pin, which left a pin looking up on csg still in the hole, LD all jts dwn on the rack; PU Kelly & bit subs w/11" bit & wsh to top of csg in hole; EDWC \$60,631; ETWC \$891,624.
- 07-12-08 **Current TD – 4910', daily ftg – 0'**; wsh to top of csg @ 132' KB, circ hole; LD DP & bit; WO fisherman & csg patch; PU shoe & short washover jt, RIH & wsh top of csg clean; LD DP & tools; RU csg crew & run 3 jts 8-5/8 csg w/csg patch on btm; lat onto string in the hole & pull 150K to tst patch, holding good; ND & PU stack to cmt thru 1" ttl of 135' of 8-5/8 jts 24# J-55, 1 jt HCK-55 32#; EDWC \$22,410; ETWC \$914,034.
- 07-13-08 **Current TD – 4910', daily ftg – 0'**; hang stack & RU to 1" to TOC on csg; WO 1" PVC pipe; make up 1" & RIH & RU cmtrs; circ cmt thru 1", good rets, cmtd w/100 sx "C" 1/4" R-38, 2% Ccl2; added on the fly, 10 Bbl, 2 BPM, 100 PSI; WOC, set slips, cut off inst WH, NU, tst BOP; PU BHA, strap collars & BHA while going in hole; EDWC \$54,962; ETWC \$968,996.
- 07-14-08 **Current TD – 5168', daily ftg – 258'**; TIH w/security FMHX653ZR 7-7/8 bit & .16 mtr; serv rig, rep Kelly spinner; inst rot head & rubber; tst 8-5/8 csg to 1000 PSI for 15 mins, tst ok; wsh 30' of green cmt on top of plug, drill plug & float collar, 45' of cmt in shoe jt & guide shoe, 8' of OH below shoe; drlg f/4910'-5168'; NOTE: ASI installed H2S sfty eqpmt today, mud logger on loc; EDWC \$21,525; ETWC \$990,521.
- 07-15-08 **Current TD – 5690', daily ftg – 552'**; drlg f/5138'-5360'; serv rig & CO rot head gasket; dev surv @ 5360' = .42 deg; drlg f/5360'-5690', FW sweeps as necessary; current ROP 66 FPH; EDWC \$22,675; ETWC \$1,043,721.
- 07-16-08 **Current TD – 6757', daily ftg – 1088'**; drlg f/5669'-5884', RPM 49, WOB 24, PSI 1575 @ 65 SPM both pmps, ROP 39; surv @ 5844' = 0.65 deg; drlg f/5884'-6165', WOB 24, PSI 1575 @ 65 SPM both pmps, ROP 56; serv rig; drlg f/6165'-6414', RPM 49, WOB 24, PSI 1375 @ #1, ROP 45; drlg f/6414'-6757', RPM 49, WOB 24, PSI 1425 @ #1, ROP 52; EDWC \$19,785; ETWC \$1,054,506.

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07-17-08 **Current TD – 6985', daily ftg – 228'**; drlg f/6757'-6881', RPM 49, WOB 24, PSI 1425 @ #1, ROP 35; surv @ 6841' = 0.56 deg; drlg f/6881'-6900', RPM 49, WOB 24, PSI 1425 @ #1, ROP 19; circ btms up, chkg samples; drlg f/6900'-6943', RPM 49, WOB 24, PSI 1425 @ #1, ROP 28; circ btms up, checking samples; drlg f/6943'-6985', RPM 49, WOB 24, PSI 1425 @ #1, ROP 42; circ bmts up, chkg samples; TOOH to core, SLM; LD mtr & rmrs, PU core Bbls; TIH w/core Bbls; EDWC \$50,712; ETWC \$1,105,218.

07-18-08 **Current TD – 7043', daily ftg – 58'**; TIH w/core bbl #1; coring f/6985'-7043 RPM 60, WOB 10, PSI 1650 @ 81 SPM #1 ROP-7; circ btms up; TOH w/core #1; SR; finish TOH; LD core; PU new inner core bbl; TIH w/core bbl #2; EDWC \$19,785; ETWC \$1,094,076.

07-19-08 **Current TD – 7043', daily ftg – 0'**; TIH w/core bbl #2; PU Kelly and core f/7045'-7105' circ btms up; POH LD cores; strap and caliper new BHA; TIH to finish prod section; EDWC \$22,653; ETWC \$1,136,514.

07-20-08 **Current TD – 7330', daily ftg –287'** PU Kelly; brk cird; ream 120' – btm; drl f/7105' – 7330'; EDWC \$22,653; ETWC \$1,159,167.

07-21-08 **Current TD – 7736', daily ftg –406'**; drlg f/7330' – 7379'; DS .95 deg @ 7341'; drlg f/7339' – 7564'; RR – rotary eqpmt; drlg f/7564' – 7736'; EDWC \$25,436; ETWC \$1,139,297.

07-22-08 **Current TD – 8031', daily ftg –463'**; drlg f/7736'-8301'; WLS @ 7841' = .95 deg; serv rig; EDWC \$21,992; ETWC \$1,135,853.

07-23-08 **Current TD – 8870', daily ftg –548'**; drlg f/8322'-8870'; surv @ 8261' = .55 degs; reps to rot driveline, driveshaft brk, wrk pipe & circ while making reps; surv @ 8796' = .09 degs; EDWC \$21,835; ETWC \$1,157,688.

07-24-08 **Current TD – 9482', daily ftg – 612'**; drlg f/8870'-9482'; serv rig; surv @ 9293' = .45 degs; EDWC \$23,736; ETWC \$1,181,457.

07-25-08 **Current TD – 9959', daily ftg – 477'**; drlg f/9482'-9959'; serv rig; surv @ 9755' = 1 deg; EDWC \$36,300; ETWC \$1,217,757.

07-26-08 **Current TD – 10,528', daily ftg – 569'**; drlg f/9959'-10528'; serv rig; surv @ 10314' = 1.8 degs; EDWC \$24,895; ETWC \$1,242,652.

07-27-08 **Current TD – 11,042', daily ftg – 514'**; drlg f/10528'-11042'; serv rig; surv @ 10817' = ¾ degs; EDWC \$25,780; ETWC \$1,289,664.

07-28-08 **Current TD – 11,042', daily ftg – 133'**; drlg f/11042'-11175', bit played out, couldn't get penetration rt back up; spot pill for trip out; TOH for bit #9, LD mud mtr; slip DL 130'; TIH w/7-7/8 Reed M-4508ZP; EDWC \$34,260; ETWC \$1,298,144.

07-29-08 **Current TD – 11,274', daily ftg – 99'**; TIH w/reed 7-7/8 M-4508ZP roller cone bit; wsh to btm & brk bit in; drlg f/11175'-11274'; EDWC \$52,403; ETWC \$1,350,547.

07-30-08 **Current TD – 11,430', daily ftg –156'**; SR; DS @ 11297= 1 deg; drl f/11274'-11430'; EDWC \$50,441; ETWC \$1,400,988.

07-31-08 **Current TD – 11,500', daily ftg –70'**; SR; drl f/14304'-11500'; circ; short trip 12 stds no drag no fill; circ for logs; spot heavy visc pill; POH for logs; EDWC \$21,963; ETWC \$1,422,951.

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08-01-08 **TD – 11,500'**; POH for logs; RU loggers and log hole using pack off; logging 2 runs; logger's TD 11,500'; TIH to circ and LD pipe; EDWC \$19,422; ETWC \$1,442,373.

08-02-08 **TD – 11,500'**; TIH to circ for LD; repairs to drlg line in the drum; continue TIH; circ and coned hole for logs; LD DP; brk dwn Kelly for rig move; EDWC \$89,853; ETWC \$1,532,226.

08-03-08 **TD – 11,500'**; LD DC's; RU csg crew and held safety meeting; run 5-1/2" csg w/locator jts and DV tool (11520.65'); circ; WO bulk cmt; cmt 1st stage 24 Bbls Super Flush 102, 940 sx; bump plug; press up 500 over – OK; good returns; blow out ports on DV tool and circ while WOC on 1st stage; EDWC \$33,788; ETWC \$1,566,014.

08-04-08 **TD – 11,500'**; circ and WOC; cmt 2nd stage w/350 sx lead 11.9# tailed w/100 sx 15.6#; PD @ 8:30; press up 1500# over; released and floats are holding; good returns though job; ND and set slips; clean pits; **rig released @ 2 p.m.**; EDWC \$84,365; ETWC \$1,650,379.

08-06-08 Day# - 50; WO completion unit; ETDC \$1,650,379.

08-06-08 **Day# - 50**; Had back hoe clean up location. Set pipe racks. Unloaded tubing to racks. RU pulling unit. Pulled well head. Installed BOP. Tallied tubing. Picked 4 -3/4 bit and 5 3-1/2 drill collars. Picked up one jt tubing. Closed well in. Shut down for night; ETDC \$1,650,379; EDWC \$12,550.

08-07-08 **Day# - 51**; Start in hole with tubing. Tagged cement @ 7169. Drilled cement to DV tool @ 7224. Drilled out DV tool. Worked bit up and down thru DV tool. Circulate clean. Finished picking up pipe. Tagged bottom @ 11,441. Lay down one jt. Rigged up Petro Plex to pickle tubing. Pulled 3 jts and pressure test to 5000 psi. Spot 1000 gals acidic acid. Close well in. Shut down for night; ETDC \$1,650,379; EDWC \$26,700; ETWC \$39,250

08-08-08 **Day# - 52**; Open up well. Pulled 173 stands. One single. Lay down 5 3.5 drill collars and bit; Closed well in. Shut down for night; ETDC \$1,650,379; EDWC \$7020; ETCC \$46,270

08-09-08 **Day# - 53**; Open well up. Rigged up wireline trk to log and perforate. Tagged bottom @ 11439'. Logged to 4500'. Pressured up to 1000 psi while logging. Picked up perf. Gun. Perforatead @ 11376'-11370' (6' 12 holes) and 11348'- 11342' (6' 12 holes). Rigged down wireline trk. Picked up 5.5 packer. Ran packer, seat nipple, 73 stands 2-7/8 tubing. Closed well in. Shut down. ETDC \$1,650,379; EDWC \$16,970; ETCC \$63,420.

08-11-08 **Day# - 55**; Open up well. Finished running tubing in hole. Rigged up PetroPlex to pump 24 bbls 2% down casing to put acid in tubing. Set packer @ 11303'. Rigged up on tubing to break down perfs. Pumped 70 bbls down tubing. Total load 94 bbls. Break down @ 2300 psi. Avg rate 4.8 bbls per min. Max 4700 psi. INSP 3550 psi. 5 min. 3380 psi. 10 min 3300 psi. 15 min 3200 psi. Rigged down PetroPlex. Rigged up swab. Swabbed back total 60 bbls (all water). Fluid level 7200' from surface. Closed well in for night. EDC \$12,840; ETC \$1,726,639.

08-12-08 **Day# - 56**; Open well up. Well on vac. Fluid level @ 6500' from surface. First run 100% water. Rigged down swab equip. Release packer. Pull tubing and lay down packer. Wait on wireline trk. RU wireline trk. Closed well in. Shut down for night. EDC \$13,370; ETC \$1,740,009.

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08-13-08 **Day# - 57**; Open up well. Ran wireline bridge plug. Set plug @ 11320'. Put 20' cement on top of plug. Perforate @
11204' – 11212'8' 4 spf 32 holes
11158' – 11162'4' 4 spf 16 holes
11142' – 11148'6' 4 spf 24 holes
11118' – 11122'4' 4 spf 16 holes
11102' – 11106'4' 4 spf 16 holes
26' 104 holes
Rigged WL trk down. Picked up packer. Ran tubing in hole. Ran tubing to 11212'. Rigged up PetroPlex. Spot 1000 gal. acidic acid. Pulled 24 stands. Closed well in. Shut down for night.
EDC \$23,890; ETC \$1,763,899.

08-14-08 **Day# - 58**; Open up well. Changed out BOP. Ran 26 stands 2-7/8 tubing. Rig up PetroPlex. Pumped 24 bbs 2% KCL water down casing. Put acid back in tubing. Set packer. Pumped acid away. Well broke down @ 2050 psi. Rigged up swab equip. Swabbed back 77 bbls total. All water. Fluid level @ 10900'. Total load 94 Bbls. Closed well in. Shut down for night.

ISIP 2815 psi
5 min 2671 psi
10 min 2630 psi
15 min 2605 psi
Max rate 4.6 BPM 3700 psi
Avg rate 4.5 BPM @ 3455 psi

EDC \$9120; ETC \$1,773,019.

08-15-08 **Day# - 59**; 100 psi on tubing. Bled well down. Start swabbing. FL 7500' from surface, 2% oil. Swabbed well dry. Waited one hr. 400' entry, 50% oil. Wait one hr. Made dry run. Wait one hr. 300' entry, 50% oil. Swabbed back 29 bbls for day. Swabbed back 106 bbls total. Closed well in. Shut down for weekend.
EDC \$5970; ETC \$1,778,989.

08-18-08 **Day# - 62**; 800 psi on tubing. Bled well down. Rigged up PetroPlex to acidize. Pumped 5000 gals 15% HCL acid. Dropped 10 balls every 5 bbls. Well balled out. Surged well. Started pumping and well balled out again. Surged well. Waited 10 mins. Finished acidizing. Rigged up swab equip. Bled well down. Started swabbing. Swabbed back 93.5 bbls. FL 4000' from surface. Lot of gas. Closed well in. Shut down for night.
ISIP 3000 psi, 5 min 2872, 10 min 2816, 15 min 2780, Avg rate 6.3 bpm Avg psi 4200, 200 bbls total load

EDC \$20,610; ETC \$1,799,599.

08-19-08 **Day# - 63**; Well had 600 psi. Open well up to test tank. Well flowed back 14 Bbls (acid water and small amt of oil mixed). Released packer. Well kept flowing. Pumped 140 Bbls brine water. Well started flowing out csg. Bled csg off. Pulled tubing and packer. Ran BP, 1 jt 2-7/8 tubing, 4' perf sub, seat nipple, 9 jts 2-7/8 tubing, TAC and 100 stands tubing. Closed well in. Shut down for night.
EDC \$8920; ETC \$1,808,519.

08-20-08 **Day# - 64**; Bled well down. Finished running tubing in hole. Pulled BOP and flange. Install wellhead. Set TAC w/18pts. Land tubing. Picked up pump, 26 K shear tool, 4' guided sub, 4 1.5" bars. Picked up 222 ¾ rods. Closed well in. Shut down for night; TAC@ 10,972; SN @ 11,231; BP@ 11,263; Bull Plug
1 jt 2-7/8 tubing; 1 4' perforated sub; 1 seat nipple; 8 jts 2-7/8; TAC (5.5 x 2-7/8); 339 jts 2-7/8 tubing
EDC \$5720; ETC \$1,814,239.

Operator: CWEI Phone: 432-682-6324 Fax 432-688-3250
Well: **Andrews University 16 #1** AFE: 80218 /New Drilling/\$2,401,500
Location: 1980' FNL & FEL, Sec 16, Blk 5, ULS Lease No.: 03990-001
Andrews County, Texas Field: Spraberry (Trend Area)
CWEI WI 86% Site Supervisor: Steve Evans/Lariat #32
Description: Drl & complete 10,500' vertical Wolfcamp/Strawn/Spraberry

08-21-08 **Day# - 65;** HSM – Running rods

Finished picking up rods. Spaced well out. Checked pump action. Rigged down pulling unit.

1 – 16' x 1.25" gas anchor

1 – 2.5 x 1.5 x 24 pump

1 – 26K shear tool

4 – 1.5" wt bars

292 – 3/4 rods (Norris 97)

148 – 7/8 rods (Norris 97)

1 – 6' 7/8 sub

1 – 2' 7/8 sub

1 – 26'x 1.5 polish rod

1 – 1.5" x 1.75 x 16' liner

Daily Costs:

Basic Pulling unit \$ 4,100

JGT test tank 50

Stinnett mat & pipe racks 150

Tucker catwalk 50

JGT frac tanks 250

Consultant 900

EDC \$5500; ETC \$1,818,739.

08-27-08 **Day# - 71;** Finalizing btry hookup.

ETC \$1,818,739.

08-28-08 **Day# - 72;** WO elect line to be moved to btry.

ETC \$1,818,739.

08-31-08 **Day# - 75;** Pmpd 0 BO + 80 BW + 0 MCF.

09-01-08 **Day# - 76;** Pmpd 0 BO + 77 BW + 0 MCF;

ETC \$1,818,739.

09-02-08 **Day# - 77;** Pmpd 0 BO + 55 BW + 0 MCF;

ETC \$1,818,739.

09-03-08 **Day# - 78;** Pmpd 0 BO + 6 BW + 0 MCF; electricity off.

09-04-08 **Day# - 79;** Pmpd 0 BO + 58 BW + 0 MCF;

ETC \$1,818,739.

09-05-08 **Day# - 80;** Pmpd 8 BO + 44 BW + 0 MCF.

09-06-08 **Day# - 81;** Pmpd 8 BO + 25 BW + 0 MCF.

09-07-08 **Day# - 82;** Pmpd 17 BO + 14 BW + 0 MCF;

ETC \$1,818,739.

09-08-08 **Day# - 83;** Pmpd 19 BO + 0 BW + 0 MCF;

ETC \$1,818,739.

09-09-08 **Day# - 84;** Pmpd 17 BO + 0 BW + 0 MCF;

ETC \$1,818,739.

09-10-08 **Day# - 85;** Pmpd 17 BO + 0 BW + 0 MCF;

ETC \$1,818,739.

09-11-08 **Day# - 86;** MIRU CC Forbes; LD polish rod; unseat pmp; start POOH & LD rods; SIW;

Pmpd 11 BO + 0 BW + 0 MCF;

EDC \$5070; ETC \$1,823,809.

09-12-08 **Day# - 87;** AOL; fin POOH & LD rods; NDWH; rel TAC; NU BOP; beg POOH & LD tbg; got ½ of tbg; LD; SIW; SDFWE; EDC \$4500; ETC \$1,828,309.

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09-15-08 **Day# - 90**; AOL: fin TOO H & LD tbg; ND BOP; flange up WH; RD & rel PU;
 ETC \$1,828,309.

09-16-08 **Day# - 91**; Installed frac valve & cross;
 EDC \$3450; ETC \$1,831,759.

09-17-08 **Day# - 92**; Pmpd 0 BO + 319 BW + 0 MCF; MIRU;
 EDC \$3350; ETC \$1,835,109.

09-18-08 Frac – pmpd 194,777 gals cross-linked gel w/183,305# 20/40 SLC sd, avg press 5128# w/avg rt 71.1 BPM, ISIP 3768#; set CBP @ 11,050#; perf Penn Carbonate 10,906'-10,970'; frac well w/88,249 gals cross-linked gel & 35,845# 20/40 SLC; avg press 5775# & avg rt of 65 BPM, ISIP 3533#; att to set CBP @ 10,860'; TIH to 9960' & pull out of rope socket; POOH; left loaded guns in hole; TIH & set CBP W @ 10,860'; frac well w/104,139 gals; cross-linked gel 75,188 20/40 SLC sd; avg press 5079# & 42.2 BPM, ISIP 2979#; set CBP @ 10,220' & perf (10,120-10,140); frac well w/133,909 gals; cross-linked gel & 119,711# 20/40 SLC; avg press 4332# w/avg rt of 72.9 BPM, ISIP 2517#; set CBP @ 10,100'; perf Wolfcamp (10,036'-10,056'); frac well w/92,810 gals; cross-linked gel & 36,082# 20/40 SLC sd; avg press 4919# & avg rt 76.7 BPM; ISIP 2730#; set CBP @ 10,000' & perf Wolfcamp 9926'-9970'; frac well w/74,980 gals cross-linked gel & 77,881# 20/40 SLC; avg press 4527# & avg rt @ 76 BPM; ISIP 1907#; set CBP 9880' & perf Middle Wolfcamp 9734'-9870'; frac well w/179,147 gals cross-linked gel & 168,165# 20/40 SLC; avg press 3449#, avg rt 64.9 BPM, ISIP 1535#; set CBP @ 9700' & tst to 3000#; perf Wolfcamp 9580'-9674'; frac zone w/74,490 gals cross-linked gel & 77,881# 20/40 SLC sd; avg press 3572# & avg rt 77.9 BPM, ISIP 1393#; set flw thru CBP @ 9540'; perf Wolfcamp 9472'-9536'; frac well w/91,840 gals cross-linked gel & 103,601# 20/40 SLC; avg press 3320# & 70.7 BPM; ISIP 1105#; BLWTR 21,500; EDC \$1,047,400; ETC \$2,82,509.

09-19-08 RD Enertech WL & Fractech; RU Tetra Svcs flw back manif to tst tnk & beg flw back; opened well @ 3:30pm w/850# press; BLWTR f/top 2 zones 3811 Bbls;
 EDC \$6300; ETC \$2,888,809.

09-20-08 Recd 322 BLW, 725# on 14/64" chk.

09-21-08 Recd 652 BW; 600# on 18/64" chk;
 EDC \$6300; ETC \$2,895,109.

09-22-08 Recd 850 BW; 525# on 18/64" chk; BLW 3811; BLWR 1824; BLWTR 1987;
 EDC \$6300; ETC \$2,901,409.

09-23-08 Recd 824 BW; 380# on 18/64" chk; 33 BPH, slight gas blw, no oil or sd; TP dropped 145# in last 24 hrs.
 EDC \$6300; ETC \$2,907,729.

09-24-08 Recd 720 BW; 160# on 22/64" chk as of 8pm; had chlorides checked – 30,000 ppm; 6am – 200# on 20/64" chk; BLW 3811; BLWR 3368; BLWTR 443;
 EDC \$6300; ETC \$2,914,029.

09-25-08 Recd 777 BW; 5# on 28/64" chk; BLW 3811; all wtr recd;
 EDC \$6400; ETC \$2,926,829.

09-26-08 Recd 492 BW; 5# on 28/64" chk; 0 oil cut; chk opened all the way; rel flw back crew;
 EDC \$6400; ETC \$2,933,229.

09-27-08 Recd 247 BW; 0# on open chk; 0 oil cut;
 EDC \$4600; ETC \$2,937,829.

09-28-08 Recd 116 BW; 0# on open chk; 0 oil cut;
 EDC \$3800; ETC \$2,941,629.

09-29-08 Recd 63 BW; 0# on open chk; still making slick wtr; MIRU Cactus WS rig #205; RU Basic rev unit; move pipe racks, catwalk & tbg w/forklift; ND frac valve & cross; NU BOP, tally top layer of tbg; PU 4-5/8" rock bit & sub, begin PU & TIH w/tbg; TIH w/140 jts; SIW, SDFN;
 EDC \$3800; ETC \$2,945,429.

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 CWEI WI 86% Site Supervisor: Steve Evans/Lariat #32
 Description: Drl & complete 10,500' vertical Wolfcamp/Strawn/Spraberry

09-30-08 AOL: fin tallying, PU & TIH w/tbg; tg up @ 9535'; flw thru CBP set @ 9550' WLM; circ sd f/top CBP; DO CBP in 20 mins; circ clean; TIH & tg CIBP @ 9695'; circ clean; TOO H w/120 jts tbg; SIW, SDFN; EDC \$10,890; ETC \$2,956,319.

10-01-08 AOL; tbg flwg slightly, csg dead; pmpd 30 BW to kill tbg; fin POOH w/tbg; LD bit & sub; PU RBP & pkr & TIH w/tbg; tg up @ 9696'; PU 6' & set pkr; load tbg w/5 Bbls PW & try to tst CIBP; press up to 500#, would not hold; relsd pkr; PU 10' & try to tst again but would not; dropped back dwn 10' set RBP; PU 4' set pkr & try to tst but would not; rel pkr dropped dwn, relsd RBP, PU 10' & set RBP; PU 4' & set pkr; tstd successfully to 1000#; left RBP set; relsd pkr PU to 9417' & set pkr; tst csg to 500# & held; RU to swb; SIW, SDFN; Swb tst shale zones EDC \$7975; ETC \$2,964,294.

10-02-08 AOL; slight blw on tbg; beg swbg; IFL 1200' FS; 1st 5 runs rec'd slick wtr, thereafter wtr salty; Chl @ 65,000 mg/l; mad 16 runs rec'd 255 BW w/0 oil; last 6 runs hit gas pockets; final FL @ 1300' FS; LD swb & beg POOH w/tbg; POOH w/186 jts tbg; SIW; SDFN; EDC \$7950; ETC \$2,972,244.

10-03-08 AOL; tbg had slight blow; fin TOO H w/tbg; PU pkr & jet pmp housing; ND BOP; set pkr @ 9494' w/23k compression; jet pmp housing on top of pkr; NU WH; jug tst pkr @ 600# for 30 mins; drop standing valve for jet pmp; hook up tri-plex pmp & sep using frac tanks for suction to tri-plex & ret fluid; circ clean fluid for 45 mins; dropped jet pmp & pmpd to SN in 40 mins; inj press climbed to 2400#; left well producing to frac tanks @ 7pm; Tetra Prod Svs watching overnight. EDC \$7800; ETC \$2,980,044

10-04-08 Well produced 524 BW in 12 hrs; hooked up 1 frac tank as gunbarrel & 4 others f/prod. EDC \$6500; ETC \$2,986,544.

10-05-08 Produced 824 BW in 24 hrs. EDC \$5300; ETC \$2,991,844.

10-06-08 Produced 690 BW in 24 hrs, trace oil; EDC \$8007; ETC \$2,999,851.

10-07-08 Produced 157 BW in 24 hrs, triplex pmp went dwn @ 1 p.m. EDC \$5005; ETC \$3,004,856.

10-08-08 No production; triplex went down with electrical problems; found starter on electric motor burned out and bad transformer on our pole; repaired; jet pmp was not working properly; surfaced jet pmp and found paraffin in nozzle; rebuilt jet and pmpd it back dwn to SN; prep to monitor production; EDC \$4675; ETC \$3,009,531.

10-09-08 Produced 375 BW no oil cut; cont to monitor prod. EDC \$4580; ETC \$3,014,111.

10-10-08 Produced 350 BW no oil cut; cont to monitor prod. EDC \$3500; ETC \$3,017,611

10-11-08 Produced 272 BW no oil cut; cont to monitor prod. EDC \$3500; ETC \$3,021,111.

10-12-08 Produced 292 BW no oil cut; cont to monitor prod. EDC \$3500; ETC \$3,024,611.

10-13-08 Jet pmp quit pmpg; decided to RD jet pmp & flw bck eqpmt; MIRU PU spot tbg & pipe racks. EDC \$3500; ETC \$3,028,111.

10-14-08 SD due to weather

10-15-08 AOL; ND WH; NU BOP; rel pkr; PU tbg & TIH; latch onto RBP & rel; TOO H w/tbg; PU 4-5/8" rock bit & sub, 6 – 3-1/2" DC; TIH w/268 jts tbg; SIW; SDFN.

10-16-08 AOL; PU & TIH w/tbg; tg sd on top of CIBP @ 9680'; wsh out sd tg CIBP @ 9696'; DO CIBP in 1.5 hrs; pushed CIBP to 9860' & DO rest of CIBP in 2 more hrs; circ well clean; POOH above perms; form drank about 360 Bbls; SIW, SDFN.

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10-17-08 AOL; TIH & DO CBP @ 9880'; well started flwg 3 BPM; wait 1.5 hrs for 10# brine; pmpd 15 Bbls brine dwn tbg; beg PU tbg & TIH; tg sd on top of plug @ 10,000'; wsh out sd & DO CBP; PU tbg & TIH; tg sd on top of CBP @ 10,100'; wsh out sd; DO CBP; circ well clean; POOH w/tbg above perfs; SIW; SDFWE.

10-20-08 AOL; well had 420# csg press; opened csg to TT; pmpd 15 Bbls brine dwn tbg; TIH w/tbg; wsh sd off top of CBP @ 10,220' & DO Plug; TIH w/tbg & wsh sd off top of plug @ 10,860' & DO; circ well clean; POOH w/tbg; PU 4-1/2" wire shoe & 2 jts wsh pipe; TIH to top of perfs; SIW; SDFN. ETC \$3,028,111.

10-21-08 AOL; 320# TP; fin TIH w/shoe & wsh pipe tg fish @ 10,996'; wrkd shoe & wsh pipe over fish; circ out pieces of CBP, frac balls & CIBP; circ well clean for 1.5 hrs; TOO H w/tbg; PU & TIH to top of perfs w/4-5/8" overshot w/3-1/8 grapple & bumper jars; SIW; SDFN; EDC \$15,410; ETC \$3,043,521.

10-22-08 AOL; blew well dwn; TIH w/tbg; tgd up @ 7990'; PU 15' & caught wt; able to go dwn but hang up coming up; TIH w/28 jts; able to come up 18' & catch wt; still able to go dwn; TIH to 10,996'; able to come up about 28' & catch wt; pulled up 7 times & set off jars until we could come up; kept wrkg to make sure we had fish; TOO H w/tbg, did not have fish; SIW; SDFN; ETC \$3,043,521.

10-23-08 AOL; CP 250#; PU 4-1/8" flwt btm shoe w/cutright & 3-1/8" grapple, 4' ext, bmr jars & 6 - 3-1/2" DC's; had to pmp 30 Bbls 10# Brine to kill well; tg up @ 11,007'; start drlg up pieces of CBP; wrkd 2-1/2 hrs; finally dropped over fish; pulled 6 pts over string wt & jarred loose; TOO H w/tbg; did have guns but found CBP jammed into grapple; SIW; SDFN; ETC \$3,043,521.

10-24-08 AOL; blew well dwn; PU 4-5/8" overshot w/3-1/2" grapple bumper jars; TIH; tg up on fish @ 10,996'; wrk overshot over fish; jar fish loose; beg POH w/tbg; POH w/tbg w/all fish; Eneritech disarmed perf guns; LD perf guns; SIW; SDFWE EDC \$12,300; ETC \$3,055,821.

10-27-08 AOL; 300# csg; blew well dwn; PU 4-5/8" cone buster mill; TIH w/6 - 3-1/2" DC's & 335 jts tbg; tg plug @ 11,042' & DO; push plug to sd on top of plug @ 11,075'; wsh out sd & DO plug; CO to 11,147'; circ well clean; POOH above perfs; SIW; SDFN ETC \$3,055,821.

10-28-08 AOL; 300# csg; TIH w/tbg; tg up @ 11,296'; TOO H w/tbg; LD DC's, 49 jts tbg & cone buster mill; TIH w/prod tbg; SIW; SDFN EDC \$10,500; ETC \$3,066,321.

10-29-08 ND BOP; set TAC; ND WH; PU & TIH w/pmp & rods; hung well on; did not start unit, need to rep FL; SIW; SDFN EDC \$11,300; ETC \$3,077,621.

10-30-08 AOL; respaced rods; good pump action; RDMO PU; crew repair FL; FINAL REPORT EDC \$2,510; ETC \$3,080,131

10-31-08 Pmpd 22 BO + 312 BW + 0 MCF;

11-01-08 Pmpd 6 BO + 292 BW + 0 MCF;

11-02-08 Pmpd 6 BO + 222 BW + 0 MCF;

11-03-08 Pmpd 6 BO + 304 BW + 0 MCF

11-04-08 Pmpd 6 BO + 261 BW + 0 MCF

11-05-08 Pmpd 6 BO + 252 BW + 0 MCF

11-06-08 Pmpd 6 BO + 297 BW + 0 MCF

11-07-08 Pmpd 6 BO + 222 BW + 0 MCF

11-08-08 Pmpd 6 BO + 226 BW + 0 MCF

11-09-08 Pmpd 11BO + 229 BW + 0 MCF

11-10-08 Pmpd 19 BO + 239 BW + 0 MCF

11-11-08 Pmpd 22 BO + 220 BW + 0 MCF

11-12-08 Pmpd 33 BO + 230 BW + 12 MCF

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11-13-08	Pmpd 41 BO + 221 BW + 17 MCF
11-14-08	Pmpd 36 BO + 165 BW + 1 MCF
11-15-08	Pmpd 36 BO + 182 BW + 0 MCF
11-16-08	Pmpd 41 BO + 175 BW + 13 MCF
11-17-08	Pmpd 33 BO + 143 BW + 27 MCF
11-18-08	Pmpd 66 BO + 147 BW + 13 MCF
11-19-08	Pmpd 33 BO + 151 BW + 14 MCF
11-20-08	Pmpd 39 BO + 133 BW + 13 MCF
11-21-08	Pmpd 44 BO + 121 BW + 18 MCF; venting gas, dwn 10 hrs
11-22-08	Pmpd 50 BO + 136 BW + 12 MCF
11-23-08	Pmpd 40 BO + 118 BW + 16 MCF; <u>dropped from report.</u>