

ANDREWS UNIVERSITY 28-14 (Spraberry-Trend)**Desta Drilling #9****Andrews Co., TX**

AFE# 101271

SPUD DATE: 10/15/10

API: 42-003-41890

Prop Num: 04002-014

10/14/10

PO: MIRU; WELD SFTY POST ON CROWN, WRK ON DERRICK HYDR CYLINDER; FIN RU; MIX SPUD MUD; PRIME PMPS.

CWC \$165,346

10/15/10

DAS 1; **PD 415'**; PO: CO DERRICK HYDR CYL; FIN RU; PU BHA, XO, SHOCK SUB, BIT; LATCH ONTO KELLY; TG @ 60'; DRILL F/60'-415'; TD SURF HOLE @ 1AM; CIRC/COND WELLBORE; PMP SWEEP; DROP TOTCO; TOH; LD SHOCK SUB, RMR & BIT; RU EXPRESS CSG CREW; PU & RUN 10 JTS 13.375" CSG; LAND CSG @ 415'; CIRC W/RIG PMP; RD EXPRESS; RU HALLIBURTON. MW 8.6; VIS 36

CWC \$188,757

10/16/10

DAS 2; **PD 926'**; PO: TST LINES TO 1000 PSI; GOOD; PMPD 20 BFW SPACER; LEAD CMT W/440 SX HALCEM-C; MIX CMT; CIRC; SWI; WOC; LUBR RIG; CUT OFF CSG; WELD ON HEAD; TST HEAD TO 1550 PSI; GOOD; NU BOP, HCR, CHK, TURN BUCKLES & FL; TST BOP 500 PSI; GOOD; PU DP; TST HYDRILL; GOOD PU SHOCK SUB; MAKE UP BIT #2; TIH; TG @ 375'; DRL CMT; TG FORM @ 415'; DRILL 415'-926'. MW 9.8; VIS 29

CWC \$212,175

10/17/10

DAS 3; **PD 2075'**; PO: DRILL F/926'-2075'. MW 9.8; VIS 29

CWC \$245,325

10/18/10

DAS 4; **PD 3298'**; PO: DRILL F/2075'-3298'. MW 9.9; VIS 29

CWC \$376,823

10/19/10

DAS 5; **PD 4218'**; PO: DRILL F/3298'-4218'. MW 9.3; VIS 29

CWC \$396,740

10/20/10

DAS 6; **PD 4852'**; PO: DRILL F/4218'-4852'. MW 9.3; VIS 29

CWC \$410,238

10/21/10

DAS 7; **PD 5025'**; PO: DRILL F/4852'-4870', PRESSURE LOSS – PU OFF BTM – TEST PMPS. BREAK KELLY, PMP SOFT LINE, SET KELLY BACK. TOH – HOLE IN PIPE. TIH, WORK THRU TIGHT SPOTS, TAG @ 4820', PU KELLY. W&R F/4820'-4870', RIG SERVICE, RUN FLUID CALIPER. DRILL F/4870'-5025', TD 11" INT HOLE @ 3:30AM, CIRC & COND MUD. SET KELLY BACK, DROP TOTCO, TOH. MW 10; VIS 70

CWC \$429,305

10/22/10

DAS 8; **PD 5025'**; PO: FINISH TOH - LD DCS, SHOCK SUB & BIT. RUN 119 JTS 8.625" CSG & CMT. ND BOP, FLOWLINE & CHOKE, SET SLIPS, CUT OFF CSG, INSTALL B-SECTION. NU BOP, FLOWLINE, CHOKE, TURN BUCKLES & TEST BOP. PU DP, TEST HYDRILL, PU MTR, RMRS & DCS. TIH B/BIT #3. MW 8.4; VIS 28

CWC \$490,466

10/23/10

DAS 9; **PD 5764'**; PO: FINISH TIH, LD 4 JTS DP, LATCH ONTO KELLY, BREAK CIRC – TAG @ 4975', DRILL OUT CMT, FLOAT & SHOE. DRILL F/5025'-5764'. MW 8.4; VIS 28

CWC \$510,281

10/24/10

DAS 10; **PD 7120'**; PO: DRILL F/5764'-7120'. MW 8.4; VIS 28

CWC \$523,779

10/25/10

DAS 11; **PD 8167'**; PO: DRILL F/7120'-8167'. MW 8.4; VIS 28

CWC \$537,277

10/26/10

DAS 12; **PD 9525'**; PO: DRILL F/8167'-9525'. MW 8.4; VIS 28

CWC \$745,775

10/27/10

DAS 13; **PD 10430'**; PO: DRILL F/9525'-10430'. MW 8.4; VIS 28

CWC \$782,138

10/28/10

DAS 14; **PD 11079'**; PO: DRILL F/10430'-11079', CIRC & PMP PILL ON BTM. TOH W/BIT #3. MW 8.6; VIS 28

CWC \$806,359

10/29/10

DAS 15; **PD 11340'**; PO: FINISH TOH, LD MTR, RMRS & BIT. MU BIT #4, TIH W/BHA, CUT & SLIP 150' DL. TIH – TAG @10,989', W&R T/BTM, DRILL F/11079'-11340'. MW 8.6; VIS 28 CWC \$823,547

10/30/10

DAS 16; **PD 11425'**; PO: DRILL F/11340'-11425', TD 7 7/8" HOLE, CIRC & COND, PMP WL PILL ON BTM. LOG, LDDP, BREAK KELLY & LD DCS. TQ TURN & RUN 5.5 CSG. MW 8.6; VIS 28 CWC \$846,356

10/31/10

DAS 17; **PD 11425'**; PO: FINISH RUNNING 5.5 CSG – TAG @ 11425'. CMT CSG, ND, JET PITS – RELEASE RIG @ 3:00AM. CWC \$922,257

Andrews University 28 #14 AFE: \$101271/New Drlg/\$2,002,300/CWEI GWI: 100%

API: #42-003-41890

11-08-10 Blade and restore location. Set safety anchors. Install surface csg valves and fill in cellar. MIRU Halliburton wireline and pump trk. RIH with logging tools and tagged PBTD at 11,302'. Pressured up on csg to 1,000#. POH and ran Spectral gamma ray log from PBTD to 5,000', Compensated Nuetron log from PBTD to 5000', Cement bond log with gamma ray and CCL to surface. POH and RD wireline. Close well in and shut down. Est. cmt top at 3200'; Est Daily Comp \$13,312
Est Drlg \$922,257; Est Comp \$13,312; Est Tot \$935,569

12-06-10 MI RU PU NU BOP MI & set Hydrawalk; Unload & rack 352 jts. 2 7/8" L80 tbg. Tally top layer tbg. P/u & TIH w/ 160 jts. Tbg. Tally bottom layer tbg.; P/U & TIH w/ 322 jts. Tbg. Total. SIW SDFN; Est Daily Comp \$271,740

12-07-10 AOL @ 7:00 a.m. P/u & TIH w/ tbg. Tag PBTD @ 11,332'. PUH to 11,297'; RU Petroplex Acidizers; Pickle tubulars w/ 500 gals. Xylene + 500 gals. 15% HCL acid; Spot 1000 gals. 10% acetic acid @ 11, 292'. RD Petroplex Acidizers; POOH & L/d 57 jts. Tbg. Too windy to continue w/o burning threads. SIW SDFN; Est Daily Comp \$14,400

12-08-10 AOL @ 7:00 a.m. Finish POOH & L/d rest of tbg. ND BOP RD MO PU @ 4:30 P.M.; Est Daily Comp \$6840
Est Drlg \$922,257; Est Comp \$306,292; Est Tot \$1,228,549

12-09-10 NU 7-1/16"x14k frac stack; MIRU HES WL; PU perf guns; TIH & perf 11,246'-11,250', 11,278'-11,282', 11,308'-11,313' w/4 JSPF; RD HES WL; SIW; Est Daily Comp \$2700
Est Drlg \$922,257; Est Comp \$308,992; Est Tot \$1,231,249

12-10-10 MI & set 9 frac tnks & 1 acid tnk; Est Daily Comp \$2800

12-11/12-10 WOF; Est Daily Comp \$3550
Est Drlg \$922,257; Est Comp \$315,342; Est Tot \$1,237,599

12-13-10 MIRU Halliburton pumping services. Sand fracture treated 3 stages and flushed acid away on Stage 4. Pumped a total of 10,847 Gals NeFe 15 % HCL acid, 45,551 Gals treated water, 223,450 Gals Water Frac G-R (21-30 LBS/1000 gals base gel) and G-R (15-25 LB gel)carrying 97,809 LBS of Versaprop 18/40, 121,411 LBS of CRC 20/40 sand. Total load to recover is 6.591BBLS.,

Stage #1 Frac: Lower Strawn 11,246'-11,313'. Formation break down pressure 4571 PSI. Pumped 15428GALS treated water,4246 GALSNeFe 15 % HCL acid, 24,695GALS Water Frac G-R (21) XL as pad, 36,439 GALS Water Frac G-R (21) 30LBS/1000 GALS crosslinked gelled fresh water carrying 25,990 LBS Versaprop 18/40.Spotted 2571 GALS 15 % HCL acid with flush. Max rate 45.5 BPM, average rate – 42 BPM, Max pressure 6457 PSI, average pressure 6227 PSI. ISIP 5492PSI ,Total fluid pumped 80,810 GALS. BLWTR 1924.SD released to WL.

Stage #2 RU WL. RIH with CP &3-1/8" guns.Set CP at 11216'. Perforated Upper Strawn at 11076'-11195' - total holes-52.POH and RD WL and NU frac.Noformation break down pressure was observed. Pumped 11841 GALS treated water, 2384Gals NeFe 15 % HCL acid, 19118 GALS Water Frac G-R (21) XL pad, 42082 GALS Water Frac G-R (21) 30LBS/1000 GALS crosslinked gelled fresh water carrying 75425 LBS Versaprop 18/40. Spotted the HCL acid with flush. ISIP-3584 PSI. Max rate 67.4 BPM, Avg rate-61 BPM. Max pressure-6400 PSI, Avg Pressure 6021 PSI. Total fluid pumped 75,425 GALS. BLWTR-1796.ND frac and RU WL.

Stage #3 RIH with CP & 3-1/8" guns. Set CP at 10,980'. Perforated Lower Wolfcamp at 10622'-10920'-58 total holes. POH and RD WL.NU frac.Formation break down pressure-6139 PSI after 4 attempts. Sand fracture treated with15271 GALS treated water, 4217 GALS NeFe 15 % HCL acid, 31234 GALS-pad Water Frac G-R (14) XL gelled fresh waterand 69882 GALS Water Frac G-R (14) XL fresh water carrying 121,411 LBS CRC 20/40 proppant. Spotted 15 % HCL acid with

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flush. ISIP 3836 PSI. Max Rate 66 BPM. Avg rate-62, Max pressure-6541 PSI & avg pressure-5648 PSI. Total fluid pumped 120,604 Gals. BLWTR-2872. ND frac and RU WL

Stage #4 RIH with CP & 3-1/8" guns. Set CP at 10400'. Perforated Wolfcamp Lime at 9897'-10176', 61 total holes. POH and RD WL. NU frac. Formation break down pressure-4957 PSI. Flushed acid with 3011 GALS treated water. Max rate 29.5 BPM, max pressure 5300 PSI. ISIP-2834 PSI. SION

12-14-10 Est Drlg \$922,257; Est Comp \$315,342; Est Tot \$1,237,599

NU Frac. Pumped 28152 GALS treated water, 936 GALS NeFe 15 % HCL acid, 48689 GALS Water Frac G-R (15) XL as pad, 53607 GALS Water Frac G-R (15) 30 LBS/1000 GALS crosslinked gelled fresh water carrying 39134 LBS CRC 20/40 sand. Spotted acid with flush. Max rate 77.9 BPM, average rate – 62 BPM, Max pressure 6464 PSI, average pressure 5882 PSI. ISIP 4082 PSI, Total fluid pumped 131,384 GALS. BLWTR 3128. Attempted to frac twice- unsuccessful. SD released to WL.

Stage #5 RU WL. RIH with CP & 3-1/8" guns. Set CP at 9850'. Perforated Lower Spraberry at 9430'-9676' - total holes-58. POH and RD WL and NU frac. Formation break down pressure 5640 PSI. Pumped 7363 GALS treated water, 4026 Gals NeFe 15 % HCL acid, 25,175 GALS Water Frac G-R (15) XL pad, 68,958 GALS Water Frac G-R (15) 25 LBS/1000 GALS crosslinked gelled fresh water carrying 87658 LBS of White Ottawa 20/40 sand and 33,181 LBS of CRC 20/40 sand. Spotted the HCL acid with flush. ISIP-1355 PSI. Max rate 77.5 BPM, Avg rate-66.2 BPM. Max pressure-6698 PSI, Avg Pressure 4221 PSI. Total fluid pumped 105,522 GALS. BLWTR-2512. ND frac and RU WL.

Stage #6 RIH with CP & 3-1/8" guns. Set CP at 9300'. Perforated Upper Spraberry at 8742'-9180'-58 total holes. POH and RD WL. NU frac. Formation break down pressure-1948 PSI. Sand fracture treated with 9206 GALS treated water, 1991 GALS NeFe 15 % HCL acid, 29,871 GALS-pad Water Frac G-R (14) XL gelled fresh water and 78220 GALS Water Frac G-R (14) XL fresh water carrying 154,290 LBS CRC 20/40 proppant. Spotted 15 % HCL acid with flush. ISIP 1053 PSI. Max Rate 74 BPM. Avg rate-70, Max pressure-4833 PSI & avg pressure-3626 PSI. Total fluid pumped 119,288 Gals. BLWTR-2840. ND frac and RU WL

Stage #7 RIH with CP & 3-1/8" guns. Set CP at 8600'. Perforated Lower Leonard at 8044'-8334' - total holes-61. POH and RD WL and NU frac. Formation break down pressure 1865 PSI. Pumped 8347 GALS treated water, 1963 Gals NeFe 15 % HCL acid, 52,958 GALS Water Frac G-R (15) XL pad, 149,199 GALS Water Frac G-R (15) 25 LBS/1000 GALS crosslinked gelled fresh water carrying 217,603 LBS of White Ottawa 20/40 sand and 46,104 LBS of CRC 20/40 sand. Spotted the HCL acid with flush. ISIP-1170 PSI. Max rate 75.2 BPM, Avg rate-72 BPM. Max pressure-3548 PSI, Avg Pressure 3284 PSI. Total fluid pumped 212,467 GALS. BLWTR-5059. ND frac and RU WL.

Stage #8 RIH with CP & 3-1/8" guns. Set CP at 7990'. Perforated Middle & Upper Leonard at 7660'-7940'- total holes-51. POH and RD WL. NU frac. Formation break down pressure-2488 PSI. Sand fracture treated with 9817 GALS treated water, 63,910 GALS-pad Water Frac G-R (15) XL gelled fresh water and 186,148 GALS Water Frac G-R (15) XL fresh water carrying 353,201 LBS White Ottawa sand 50m466 LBS CRC 20/40 proppant. Flushed to 7000'. ISIP 1159 PSI. Max Rate 71 BPM. Avg rate-70.3, Max pressure-5641 PSI & avg pressure-2792 PSI. Total fluid pumped 259,875 Gals. BLWTR-6188. ND frac. RU WL. Set CP at 6,500'. RDMO WL & Frac. BLWTR-26,220 BBLs; Est Daily Comp \$441,209

12-21-10 Est Drlg \$922,257; Est Comp \$756,551; Est Tot \$1,678,808

MI RU PU @ 9:00 a.m.; Set Hydrawalk; Set tbg. On racks; ND frac stack; Weld on 5 1/2" bell nipple; Screw on Type R WH; NU BOP; Tally tbg.; P/u & TIH w/

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198 jts.; Tag 40' sand on top of CBP @ 6500'. L/d 2 jts. Tbg. SIW Prep to DO plugs. SDFN; Est Daily Comp \$1050

12-22-10 AOL 7:00 am. Tag @ 6448' c/o 12' sand. DP @ 6460'. RT. Tag @ 7923' c/o 47' sand. DP @ 7920'. RT. Tag @ 8502' c/o 78' sand. DP @ 8580'. Well flowing 3-4 bpm. RT. Tag sand @ 9180'. Circulate clean. Pulled 42 stands 2-7/8 L80 tbg. CWI SD 6:00 pm. Hauled 1200 bbls from pit; Est Daily Comp \$12,700

12-23-10 AOL 7:00 am. Ran 42 stands 2-7/8 L80 tbg. Tag @ 9180' c/o 113'. DP @ 9293'. RT. Tag @ 9810' c/o 5' sand to 9815'. Swivel broke down. Pull 52 stands. CWI SD 3:00 pm. Haul 720 bbls from pit; Est Daily Comp \$8900

12-24/26-10 SDFWE & holiday; Est Daily Comp \$3450

12-27-10 Est Drlg \$922,257; Est Comp \$782,652; Est Tot \$1,704,909
AOL @ 7:00 a.m. TIH w/ tbg. Tag 20' sand on top of CBP @ 9850'; RU swivel; CO sand & DO CBP; TIH tag 40' sand on top of CBP @ 10,400'; CO sand & DO CBP; TIH Tag 20' sand on top of CBP @ 10,980'; CO sand & DO CBP; TIH Tag 45' sand on top of CBP @ 11,216'; CO sand & DO CBP; TIH; CO to PBTD @ 11,345'. Circ. well f/ 1 hr. RD Swivel; POOH & L/d 116 jts. tbg. SIW SDFN; Est Daily Comp \$9840

12-28-10 Est Drlg \$922,257; Est Comp \$792,492; Est Tot \$1,714,749
AOL @ 7:00 a.m.; Dropped ball f/ sliding sleeve bit sub; Hang tbg. In slips; NU WH; Pumped open sliding sleeve; RD reverse unit; RD MO PU; Set tbg. To side of location RD Hydrawalk; Hooked up flowline to test tanks; Opened csg. On 32/64" choke; Left well flowing to test tanks; Est Daily Comp \$8370

12-29-10 Est Drlg \$922,257; Est Comp \$801,862; Est Tot \$1,724,119
Flwd 560 BLW; Est Daily Comp \$2110

12-30-10 Flwd 187 BLW; Est Daily Comp \$1280

12-31-10 Well dead; Est Daily Comp \$1050

01-01/09-11 WOR; prep to put on pmp; Est Daily Comp \$9450

01-11-11 Est Drlg \$922,257; Est Comp \$822,542; Est Tot \$1,744,799
MIRU Key well service. NU pump trk and pumped 30-bbls 10# to kill gas. POH with 238 jts of 2 7/8" tbg and layed down sliding sleeve and mill. RIH with 20 jts kill string. Close well in and shut down. 5:00 p.m.; Est Daily Comp \$4950

01-12-11 Est Drlg \$922,257; Est Comp \$827,492; Est Tot \$1,749,749
AOL. POH with 20jts kill string. Pickup and RIH with production tbg. 233 jts 2 7/8", 2 7/8" seat nipple, x-over, 2 3/8" spirit down hole gas separator, x-over, 5 1/2" rotation packer, 5 1/2" TAC, 2 7/8" super perf sub, 2 7/8" BPMA. SN set @ 7,579', TAC set @ 7,625' (35' above top perf), BTM MA set @ 7,662'. ND BOP and set TAC. Flanged up wellhead. Unload and rack new John Crane rod string. Pick up and RIH with new 2 1/2" x 1 1/2" x 24' pump, 4 - 1 1/2" weight bars, and 15 - 3/4" HS rods. Noticed some of the new rods are bent. Close well in and shut down; Est Daily Comp \$48,910

01-13-11 Est Drlg \$922,257; Est Comp \$877,452; Est Tot \$1,799,709
AOL. Waited on John Crane production solutions to x-change 3/4" rods. Pick up and RIH with 2 1/2"x1 1/2"x24' pump, 4 - 1 1/2" weight bars, 112 - 3/4" HS rods, 91 - 7/8" HS rods, and 60 - 1" rods. Close well in and shut down; Est Daily Comp \$4350

01-14-11 Est Drlg \$922,257; Est Comp \$881,802; Est Tot \$1,804,059
AOL. Pickup and RIH with 30 - 1" HS rods. Hang well on and spaced out rods. Loaded tbg, good pump action. RDMO key unit. Hook up wellhead and flowline to test tanks. 1 1/2" x 26' polish rod, 1" x 4'x4'x8' rod subs, 92 - 1" HS rods, 91 - 7/8" HS rods, 112 - 3/4" HS rods, 4 - 1 1/2" weight bars, 2 1/2" x 1 1/2" x 24' pump. Turned well over to production; Est Daily Comp \$2850

01-17-11 Est Drlg \$922,257; Est Comp \$884,652; Est Tot \$1,806,909
Pmpd 6 BO + 270 BW + 0 MCF to frac tnks
BLW 26,220; BLWR 270; BLWTR 25,950

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01-18-11	Pmpd 0 BO + 297 BW + 0 MCF to frac tnks BLW 26,220; BLWR 567 (2%); BLWTR 25,653
01-19-11	Pmpd 0 BO + 290 BW + 0 MCF to frac tnks BLW 26,220; BLWR 857 (3%); BLWTR 25,363
01-20-11	Pmpd 0 BO + 284 BW + 0 MCF to frac tnks BLW 26,220; BLWR 1141 (4%); BLWTR 25,079
01-22-11	Pmpd 3 BO + 197 BW + 0 MCF to frac tnks
01-23-11	Pmpd 0 BO + 348 BW + 0 MCF to frac tnks BLW 26,220; BLWR 1686 (6%); BLWTR 24,534
01-21-11	Pmpd 4 BO + 260 BW + 2 MCF to frac tnks
01-24-11	Pmpd 22 BO + 303 BW + 12 MCF to frac tnks BLW 26,220; BLWR 2249 (9%); BLWTR 23,971
01-25-11	Pmpd 4 BO + 249 BW + 02 MCF to frac tnks BLW 26,220; BLWR 2498 (10%); BLWTR 23,722
01-26-11	Pmpd 0 BO + 235 BW + 0 MCF to frac tnks BLW 26,220; BLWR 2733 (10%); BLWTR 23,487
01-27-11	Pmpd 5 BO + 238 BW + 3 MCF to frac tnks BLW 26,220; BLWR 2971 (11%); BLWTR 23,249
01-28-11	Pmpd 9 BO + 280 BW + 5 MCF to frac tnks
01-30-11	Pmpd 6 BO + 288 BW + 38 MCF BLW 26,220; BLWR 3539 (13%); BLWTR 22,681
01-31-11	Pmpd 10 BO + 261 BW + 3 MCF BLW 26,220; BLWR 3800 (14%); BLWTR 22,420
02-01-11	Pmpd 0 BO + 311 BW + 4 MCF BLW 26,220; BLWR 4111 (16%); BLWTR 22,109
02-27-11	Pmpd 52 BO + 198 BW + 28 MCF BLW 26,220; BLWR 4309 (16%); BLWTR 21,911
02-28-11	SD due to fires BLW 26,220; BLWR 4309 (16%); BLWTR 21,911
03-01-11	SD due to fires BLW 26,220; BLWR 4309 (16%); BLWTR 21,911
03-02-11	Pmpd 72 BO + 196 BW + 0 MCF BLW 26,220; BLWR 4505 (17%); BLWTR 21,715
03-03-11	Pmpd 72 BO + 196 BW + 81 MCF BLW 26,220; BLWR 4701 (18%); BLWTR 21,519