

ANDREWS UNIVERSITY 28-11 (Spraberry-Trend)**Desta Drilling #9****Andrews Co., TX**

AFE# 101268

SPUD DATE: 9/25/10

API: 42-003-41887

Prop Num: 04002-011

9/26/10

DAS 1; **PD 455'**; PO: FINISH RU, SPUD @ 2:00PM, DRILL F/60'-455', CIRC & COND. TOH F/CSG, RUN 11 JTS
13.375" CSG & RU F/CMT JOB. MW: 8.7; VIS 33 CWC \$281,820

9/27/10

DAS 2; **PD 1118'**; PO: CMT CSG, CUT OFF, WELD ON HEAD & TEST. NU BOP, FLOWLINE, CHOKE, ETC.,
FUNCTION TEST. PU BIT #2, TIH, TEST PIPE RAMS, TAG CMT @ 395', LATCH ONTO KELLY, DRILL CMT.
DRILL F/455'-1118'. MW 9.8; VIS 29 CWC \$311,723

9/28/10

DAS 3; **PD 2541'**; PO: DRILL F/1118'-2541'. MW 9.8; VIS 29 CWC \$327,618

9/29/10

DAS 4; **PD 3712'**; PO: DRILL F/2541'-3712'. MW 9.8; VIS 29 CWC \$481,103

9/30/10

DAS 5; **PD 4661'**; PO: DRILL F/3712'-4661'. MW 10; VIS 28 CWC \$499,058

10/1/10

DAS 6; **PD 5010'**; PO: DRILL F/4661'-5010', TD 11" HOLE @ 6:00AM, CIRC & COND MUD. MW 10; VIS 28
CWC \$522,331

10/2/10

DAS 7; **PD 5010'**; PO: DROP TOTCO, TOH F/INT CSG, WORK PIPE F/1561'-1023'. TQ TURN, RUN 117 JTS
8.625" CSG & CMT. JET PITS & ND BOP. MW 10; VIS 28 CWC \$579,963

10/3/10

DAS 8; **PD 5184'**; PO: CUT OFF CSG, SET SLIPS, NU B-SECTION BOP, FLOWLINE, CHOKE & TEST. PU MTR,
RMRS, DCS & TIH W/ 7 7/8" BIT. PU KELLY, REPLACE BROKEN SPINNERS, TEST MTR. FINISH TIH, INSTALL
ROT HEAD, KELLY DRIVE BUSHINGS & TEST PIPE RAMS. DRILL OUT CMT, FLOAT & SHOE. DRILL F/5010'-
5184'. MW 8.5; VIS 28 CWC \$596,917

10/4/10

DAS 9; **PD 6513'**; PO: DRILL F/5184'-6513'. MW 8.4; VIS 28 CWC \$610,891

10/5/10

DAS 10; **PD 7587'**; PO: DRILL F/6513'-7587'. MW 8.4; VIS 28 CWC \$535,787

10/6/10

DAS 11; **PD 8158'**; PO: DRILL F/7587'-8158'. MW 8.4; VIS 28 CWC \$560,994

10/7/10

DAS 12; **PD 9044'**; PO: DRILL F/8158'-9044'. MW 8.4; VIS 28 CWC \$771,762

10/8/10

DAS 13; **PD 9773'**; PO: DRILL F/9044'-9773'. MW 8.4; VIS 28 CWC \$785,260

10/9/10

DAS 14; **PD 10691'**; PO: DRILL F/9773'-10691'. MW 8.4; VIS 28 CWC \$804,462

10/10/10

DAS 15; **PD 11440'**; PO: DRILL F/10691'-11440', TD 7 7/8" HOLE @ 6:00AM, CIRC & COND WELL BORE. MW
8.4; VIS 28 CWC \$831,049

10/11/10

DAS 16; **PD 11440'**; PO: CIRC & SPOT PILL ON BTM, DROP TOTCO, SET KELLY BACK. LD DRILL STRING,
LATCH ONTO KELLY, BRAKE KELLY F/INSPECTION, FINISH LD DCS, RMRS & BIT. RUN 5.5 CSG. MW 8.4;
VIS 28 CWC \$860,181

10/12/10

DAS 17; **PD 11440'**; PO: FIN RUNNING 5.5" CSG; LAND CSG @ 11440'; CIRC W/RIG PMP; RD CSG CREW, TORQUE TURN & LD MACH; RU HALLIBURTON; TST LINES TO 5000, GOOD; PMP 150 BBLS N2 MUD @ 6 BPM; PMP 10 BBLS FW @ 4 BPM; PMP 24 BBLS (1000 GALS) SUPERFLUSH 102 @ 4 BPM; PMP 10 BFW @ 4 BPM; MIX CMT; RD HALLIBURTON; WOC; RELSD PRESS OFF CMT HEAD; RELSD RIG @ 6PM; PREP FOR ANDREWS UNIV 28 #14 CWC \$933,470

Andrews University 28 #11AFE: #101268/New Drlg/\$2,002,300/CWEI GWI: 100%

API: #42-003-41887

10-20-10 Blade and scrape location. Set safety anchors. Plumb surface valves and fill in cellar. MIRU Halliburton wireline and pump trk. RIH with logging tools and tagged PBTD at 11,312'. Pressured up on csg to 1,000#. POH and ran Dual spaced Neutron spectral gamma ray w/CCL and Cement Bond log w/gamma ray and CCL from PBTD at 11,312' to surface. Stopped cement bond log at 2800'. Est. cmt top at 3440'. POH and RD wireline and pump trk. Left well SI; Est Daily Comp \$12,870

Est Drlg \$933,470; Est Comp \$12,870; Est Tot \$946,340

11-01-10 MIRU Key pulling unit. Move in hydrawalk and pipe racks. Unload, rack, and tally 376 jts of 2 7/8" L-80 8rd EuE tbg. ND wellhead and NU BOP. Pick up and RIH with 4 5/8" bit , 270 jts of 2 7/8" tbg. Close well in and shut down; Est Daily Comp \$90,700

11-02-10 AOL. Pick up and RIH with 105 jts of 2 7/8" tbg and tagged PBTD at 11,348'. RU Petroplex acidizing on csg, establish circulation. Pumped 500 gals of xylene, 500 gals of 15% HCL acid, and circulated clean with 267 bbls of fresh water to pickle wellbore. POH and layed down 8 jts of 2 7/8" tbg to 11,135'. NU Petroplex on tbg. Tested csg to 4900#. Held ok. released psi., established circulation, spotted 1,000 gals of 10% acetic acid with 57-bbls of fresh water. ND petroplex. POH and layed down 180 jts of 2 7/8" tbg. Close well in and shut down; Est Daily Comp \$15,216

Est Drlg \$933,470; Est Comp \$118,786; Est Tot \$1,052,256

11-03-10 AOL. POH and layed down remaining 186 jts of 2 7/8" tbg. ND BOP and flange up wellhead. RDMO Key unit. Move off tbg and released hydrawalk. Left well SI; Est Daily Comp \$5300

Est Drlg \$933,470; Est Comp \$124,086; Est Tot \$1,057,556

11-11-10 MIRU Halliburton wireline. RIH with 3 1/8" guns and perforated 11,036' - 11,039' - 3' - 18 holes, 11,094' - 11,097' - 3' - 18 holes, and 11,152' - 11,155' - 3' - 18 holes. 54 total holes. POH and RD WL. Move in tanks and prep to frac; Est Daily Comp \$4500

Est Drlg \$933,470; Est Comp \$128,586; Est Tot \$1,062,056

11-16-10 AOL for 6.00 am pump time w/ Odessa Wolverines and Joe Kirby.

Stage 1:

Begin pumping @ 8.25 am. Pumped 67,418 gal total fluid, 1390 gal 15% HCL, and 22,222 lbs of 18/40 Versaprop @ 21 cP vis. Average pressure = 5021 psi @ 52 bpm. ISIP = 3808 psi. Went to flush during 1.5 ppg due to sudden increase in net and surface pressure.

Stage 2:

TIH w/ CBP and perf guns. Set plug @ 10,920' and perf 10,738'-10,740', 10,806'-10,808', 10,834'-10,836', and 10,874'-10,868'. TOH. Begin pumping @ 10.45 am. Pumped 103,096 gal total fluid, 3619 gal 15% HCL (spearheaded 1310 gal), ~18,000 lbs 18/40 Versaprop, and 40,309 lbs of 20/40 SLC @ 15 cp vis. Average pressure = 5116 psi @ 59 bpm. ISIP = 3568 psi.

Stage 3:

TIH w/ CBP and perf guns. Set plug @ 10,160' and perf 9910'-9911', 9936'-9940', 9980'-9984', 10,036'-10,037', 10,094'-10,095', and 10,126'-10,127'. TOH. Begin pumping @ 12.50 pm. Pumped 139,510 gal total fluid, 2034 gal 15% HCL, and 150,360 lbs of 20/40 SLC @ 15 cP vis. Average pressure = 4366 psi @ 67 bpm. ISIP = 2485 psi.

Stage 4:

TIH w/ CBP and perf guns. Set plug @ 9610' and perf 9344'-9345', 9416'-9421', 9484'-9485', 9524'-9525', and 9566'-9568'. TOH. Wait to fix pumps. Begin pumping @ 3.15 pm. Pumped 83,024 gal total fluid, 2005 gal 15% HCL, 54,846 lbs of 20/40 Ottawa, and 37,852 lbs of 20/40 SLC @ 15 cP vis. Average pressure = 2977 psi @ 60 bpm. ISIP = 1498 psi.

Stage 5:

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TIH w/ CBP and perf guns. Set plug @ 9170' and perf 8670'-8672', 8700'-8702', 8792'-8793', 8822'-8825', 8866'-8868', and 8994'-8996'. TOH. Begin pumping @ 5.25 pm. Pumped 77,794 gal total fluid, 2018 gal 15% HCL, 63,218 lbs 20/40 Ottawa, and 27,895 lbs of 20/40 SLC. Average pressure = 1967 psi @ 64 bpm. Lost crosslink at end of pad. Resolved issue and then suction side of the hydration unit broke. Had to lower rate to 60 bpm so gel tank could keep up. Staged to 3 ppg early due to limited volume of gel. Was still able to pump designed amount of sand.

Stage 6:

TIH w/ CBP and perf guns. Set plug @ 8180' and test to 1500 psi. Perf 7954'-7957', 7984'-7987', 8058'-8060', 8092'-8094', and 8144'-8146'. TOH. Flushed acid w/ 4600 gal, SDFD and wait for repairs

Est Drlg \$933,470; Est Comp \$128,586; Est Tot \$1,062,056

11-17-10

Stage 6 cont'd:

Begin pumping @ 9.50 am. Pumped 141,604 gal total fluid, 2034 gal 15% HCL, and 182,001 lbs of 20/40 Ottawa @ 14 cP vis. Average pressure = 2130 psi @ 66 bpm. ISIP = 948 psi.

Stage 7:

TIH w/ CBP and perf guns. Set plug @ 7930' and perf 7700'-7702', 7730'-7732', 7796'-7799', 7864'-7867', 7916'-7917'. TOH. Begin pumping @ 11.45 am. Pumped 165,030 gal total fluid, 1982 gal 15% HCL, and 236,547 lbs of 20/40 Ottawa @ 14 cP vis. Average pressure = 2304 @ 69 bpm. ISIP = 1001 psi.

Stage 8:

TIH w/ CBP and perf guns. Set plug @ 7640' and perf 7330'-7331', 7386'-7388', 7508'-7511', 7540'-7543', and 7596'-7599'. TOH. Begin pumping @ 1.45 pm. Pumped 102,896 gal total fluid and 161,841 lbs of 20/40 Ottawa @ 14 cP vis. Average pressure = 2316 psi @ 69 bpm. ISIP = 1198 psi.

TIH w/ CBP and set cap plug. RDMO all equipment; Est Daily Comp \$343,000
Est Drlg \$933,470; Est Comp \$471,586; Est Tot \$1,405,056

11-29-10

AOL 7:00 am. ND frac head. Weld bell nipple on 5-1/2 csg. NU well head. RU PU. NU BOP. MI pipe racks, hydro walk. Moved tbg to racks. Pull protectors and tally tbg. Ran 4-5/8 bit, pump open sub, 214 jts 2-7/8 L80 tbg. Tag @ 6500'. CWI SD 6:30 pm; Est Daily Comp \$12,250

11-30-10

AOL 7:00 AM. c/o 20' sand. DP @ 6520'. RT. Tag @ 7590' c/o 70' sand. DP @ 7660'. RT. Tag @ 7910' c/o 40' sand. DP @ 7950'. Well flowing 3-4 bpm. RT. Tag @ 8140' c/o 60' sand. DP @ 8200'. RT. Tag @ 9100'. c/o 90' sand. DP @ 9190'. RT. Tag @ 9580'. c/o 50' sand. DP @ 9630'. Well started flowing oil. Pull 39 stands. CWI SD 6:30 pm. Hauled 1700 bbls from pit; Est Daily Comp \$12,700

12-01-10

Est Drlg \$933,470; Est Comp \$496,536; Est Tot \$1,430,006
AOL 7:00 am. Ran 39 stands. PU 10 jts. Tag @ 9925' c/o 255' sand. DP @ 10180'. RT. Tag @ 10890' c/o 50' sand. DP @ 10940'. RT. c/o to 11335' kb. circulate clean, Pull and lay down 136 jts 2-7/8 L80 tbg. Left 240 jts in hole (7282'). Land tbg on flange. Dropped ball and open sub 2000 psi. CWI SD 6:30 pm. Hauled 2100 bbls from pit; Est Daily Comp \$12,600

12-02-10

Est Drlg \$933,470; Est Comp \$509,136; Est Tot \$1,442,606
AOL 7am; NU WH; RD PU; open well to 32/64 chk 9am; hauled 1100 Bbls f/FT; Est Daily Comp \$6400

12-03-10

Est Drlg \$933,470; Est Comp \$515,536; Est Tot \$1,449,006

12-04-10

Flwd 1640 Bbls to frac tnk in 33 hrs; Est Daily Comp \$3050

12-05-10

Flwd 400 Bbls to frac tnk in 24 hrs; Est Daily Comp \$2550

Well dead; WOR; Est Daily Comp \$1050

12-06-10

Est Drlg \$933,470; Est Comp \$522,186; Est Tot \$1,455,656

WOR; Est Daily Comp \$1450

Est Drlg \$933,470; Est Comp \$523,386; Est Tot \$1,456,856

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12-07-10 WOR; Est Daily Comp \$1050
Est Drlg \$933,470; Est Comp \$524,436; Est Tot \$1,457,906

12-08-10 WOR; Est Daily Comp \$1050
Est Drlg \$933,470; Est Comp \$525,486; Est Tot \$1,458,956

12-09-10 MIRU PU; found well SI; 800 PSI on csg; blew well down; could not kill well w/200
Bbls 10# brine; OW to tnk overnight; relsd crew @ 1:30pm; left well flwg to tnk;
Est Daily Comp \$3050
Est Drlg \$933,470; Est Comp \$528,786; Est Tot \$1,462,256

12-10-10 AOL @ 7:00 a.m. RU kill truck; kill well w/ 100 bbls. 10 lb. brine; POOH w/ 240
jts. 2 7/8" tbg.; TIH w/ 1 - BPMA(29.40'); 1 - 2 7/8" Super Perf. Sub.(4.00') 1 - 2
7/8" x 5.5" TAC(2.7'); 1 - 2 7/8" S.N.(1.10'); 1 - 5.5" x 2 7/8" rotating pkr.(1.5'); 1 -
2 3/8" x 2 7/8" x-over(.50'); 1 2 3/8" x 40' gas separator(40.00'); 1 - 2 7/8"
S.N.(1.10'); 239 jts. 2 7/8" L80 8rd tbg.(7242.73'). ND BOP Set TAC @ 7306.99'
kb w/ 16k tension; S.N. set @ 7304.19' kb. NU WH SIW SDFWE; Est Daily Comp
\$42,790

12-11/12-10 SDFWE; Est Daily Comp \$1000
Est Drlg \$933,470; Est Comp \$572,576; Est Tot \$1,506,046

12-13-10 AOL 7:00 a.m. Blew well down; Remove thd protectors; P/u pump & rods; TIH;
Pump - 25-150-RWBC-0-6-0 w/ alt. B&S pattern; 110 - 3/4" HS rods w/ FST
couplings, 85 - 7/8" HS rods w/ FST couplings, 91 - 1" HS rods w/ SHT
couplings. Hung rods on unit; Good pump action; Left well pumping; Turned over
to production. Final report; Est Daily Comp \$5600
Est Drlg \$933,470; Est Comp \$578,086; Est Tot \$1,511,556

12-14-10 Pmpd 0 BO + 264 BW + 0 MCF to frac tnks

12-15-10 Pmpd 0 BO + 303 BW + 0 MCF to frac tnks
BLW 21,561; BLWR 567 (3%); BLWTR 20,994

12-16-10 Pmpd 0 BO + 363 BW + 0 MCF to frac tnks
BLW 21,561; BLWR 930 (4%); BLWTR 20,631

12-17-10 Pmpd 0 BO + 352 BW + 0 MCF to frac tnks

12-18-10 Pmpd 0 BO + 450 BW + 0 MCF to frac tnks

12-19-10 Pmpd 2 BO + 373 BW + 0 MCF to frac tnks
BLW 21,561; BLWR 2105 (10%); BLWTR 19,456

12-20-10 Pmpd 0 BO + 325 BW + 0 MCF to frac tnks
BLW 21,561; BLWR 2430 (11%); BLWTR 19,131

12-21-10 Pmpd 38 BO + 252 BW + 20 MCF to frac tnks

12-22-10 Pmpd 165 BO + 199 BW + 87 MCF to frac tnks

12-23-10 Pmpd 144 BO + 174 BW + 76 MCF to frac tnks

12-24-10 Pmpd 122 BO + 277 BW + 65 MCF to frac tnks

12-25-10 Pmpd 108 BO + 228 BW + 57 MCF to frac tnks

12-26-10 Pmpd 275 BO + 146 BW + 146 MCF to frac tnks
BLW 21,561; BLWR 3706 (17%); BLWTR 17,855

12-27-10 Pmpd 108 BO + 222 BW + 57 MCF to frac tnks
BLW 21,561; BLWR 3928 (18%); BLWTR 17,633

12-28-10 Pmpd 108 BO + 183 BW + 57 MCF to frac tnks
BLW 21,561; BLWR 4111 (19%); BLWTR 17,450

12-29-10 Pmpd 212 BO + 65 BW + 113 MCF to frac tnks

12-30-10 Pmpd 179 BO + 101 BW + 95 MCF to frac tnks

12-31-10 Pmpd 132 BO + 129 BW + 70 MCF to frac tnks

01-01-11 Pmpd 127 BO + 268 BW + 67 MCF to frac tnks

01-02-11 Pmpd 137 BO + 98 BW + 73 MCF to frac tnks
BLW 21,561; BLWR 4772 (22%); BLWTR 16,789

01-04-11 Well SI; high gas production upsetting battery operations
BLW 21,561; BLWR 4772 (22%); BLWTR 16,789

01-05-11 Well started back to btry w/csg choked back; NIT
BLW 21,561; BLWR 4772 (22%); BLWTR 16,789

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01-06-11	Pmpd 130 BO + 175 BW + 68 MCF BLW 21,561; BLWR 4947 (23%); BLWTR 16,614
01-22-11	Pmpd 73 BO + 5 BW + 43 MCF
01-23-11	Pmpd 83 BO + 107 BW + 59 MCF BLW 21,561; BLWR 5059 (23%); BLWTR 16,502
01-26-11	Pmpd 107 BO + 95 BW + 46 MCF BLW 21,561; BLWR 5154 (24%); BLWTR 16,407
01-27-11	Pmpd 63 BO + 19 BW + 74 MCF; <u>dropped from report</u> BLW 21,561; BLWR 5173 (24%); BLWTR 16,388
