

ANDREWS UNIVERSITY 21 #4 AFE #90204/NEW DRILLING/\$1,696,000/CWEI 100% GWI
ANDREWS CO., TX

07-16-09 Dress up location w/ backhoe. Set 4 anchors. MI RU PU. Set Hydra-Walk cat walk & pipe racks. Unload 11,600' 2 7/8" L-80 tbg. Talley tbg. MI Oilfield Fishing & Rentals reverse unit. NU BOP P/u & RIH 1- 4 5/8" rock bit, 4- 3 1/2" DC's, 61 jts. Of tbg. SIW SDFN; Est Daily Comp \$7860
Est Drlg \$864,130; Est Comp \$7860; Est Tot \$871,990

07-17-09 AOL Finish TIH w/ tbg. to DV tool. DO DV tool in 45 mins. P/U tbg. & TIH to PBTD @ 11,378". Circulate well clean. Start POOH laying down tbg. SIW SDFN; Est Daily Comp \$7900;
Est Drlg \$864,130; Est Comp \$15,760; Est Tot \$878,890

07-18-09 MI RU Halliburton Wireline. Run GR/CBL/CCL from TD @ 11,388 to Toc @ 4600'. MI RU Halliburton logging. Run cased hole log. SIW SDFN; Est Daily Comp \$22,050;
Est Drlg \$864,130; Est Daily Comp \$37,810; Est Tot \$901,940

07-22-09 MI RU PU RU Hydra-walk. Move pipe to racks. P/u & TIH w/ 348 jts. Tbg. Tag up @ 11,378'. P/U to 11,363. SIW SDFN; Est Daily Comp \$5150;
Est Drlg \$864,130; Est Daily Comp \$42,960; Est Tot \$907,090

07-23-09 AOL RU Halliburton Energy Services to csg. Ru 2 Basic Energy Services vaccum trucks w/ 220 bbls. fresh water. Break circulation. Pickle tbg. w/ 500 gals. 15% HCL acid, 20 bbls. fresh water, 500 gals. 15% HCL acid, & 238 bbls. fresh water @ 11,355'. Circulated to pit. POOH w/ 10 jts. tbg. EOT @ 11,040.94' kb. Spot 1000 gals. 10% Acetic acid from 9476' to 11,041'. RD Basic & Halliburton. POOH & LD tbg; Est Daily Comp \$10,805;
Est Drlg \$864,130; Est Comp \$53,765; Est Tot \$917,895

07-24-09 RD MOPU Install 7 1/16 x 10k frac valve & cross. Set frac tanks. SIW SDFN; Est Daily Comp \$2110;
Est Drlg \$864,130; Est Comp \$55,875; Est Tot \$920,005

07-25-09 MI RU Halliburton Wirline. RIH & perforate 11,072'-11,082', 11,096'-11,114', 11,120'-11,142' w/ 4 jspf. Rd wireline. RU Halliburton pump truck. Pumped 24 bbls. Fresh wtr. to load tbg. Breakdown formation @ 3140# @ 1.2 bpm. Acidized w/ 1000 gals. 10% acetic acid. Flushed w/ 50 bbls. fresh wtr. Avg. press. 3050#. Avg. rate 5.2 bpm. ISIP 2871#, 5 min. 2535#, 10 min. 2473#, 15 min. 2427#. RD pump truck. SIW SD for Sunday; Est Daily Comp \$3935;
Est Drlg \$864,130; Est Comp \$59,810; Est Tot \$923,940

07-27-09 RU Halliburton to frac 9 stages:

Stage #1: Perforated 11,072'-11,082'; 11,096'-11,114'; 11,120'-11,142' w/ 4 jspf.& brokedown 7-25-09. Pumped 1550 bbls. X-linked gel w/ 50,600# 20/40 CRC sand. Did not pump 3 ppg sand. Max rate 77 bpm, Avg. rate 70 bpm. Max press 6231# Avg. press. 5905#. ISIP 4708# BLWTR 1550 bbls.

Stage #2: Did set CBP. Perforated 10,814'-10,820'; 10,848'-10,854'; 10,903'-10,906'; 10,914'-10,919'; 10,960'-10,970' w/ 1 jspf. Pumped 1721 bbls. X-linked gel w/ 69,500# 20/40 CRC sand. Max rate 65 bpm, Avg. rate 63 bpm. Max press. 6223# Avg. press. 5807# ISIP 3485# BLWTR 1721 bbls.

Stage #3: Did not set CBP. Perforated 9956'-9966'; 9994'-10,000'; 10,065'-10,076'; 10,142'-10,145' w/ 1 jspf. Pumped 4324 bbls. X-linked gel w/ 181,000# 20/40 CRC sand. Max press. 5785#, Avg. press. 5619#. Max rate 78.6 bpm, Avg. rate 71.9 bpm. ISIP 2495# BLWTR 4324 bbls.

Stage #4: Set CBP @ 9750'. Perforated 9480'-9500' w/ 4 jspf. Pumped 1419 bbls. X-linked gel w/ 60,700# 20/40 CRC sand. Max press. 4616#, Avg. press. 4156#. Max rate 83 bpm, Avg. rate 78 bpm. ISIP 1704# BLWTR 1419 bbls.

Stage #5: Set CBP @ 9300'. Perforated 8764'-8773'; 8885'-8900'; 9164'-9170' w/ 1 jspf. Pumped 1632 bbls. X-linked gel w/ 43,800# 20/40 Premium Wh. Ottawa sand & 30,000# 20/40 CRC sand. Max pressure 4873# Avg. Press. 4059#. Max rate 82 bpm, Avg. rate 78.5 bpm. ISIP 915# BLWTR 1632.

Stage #6: Set CBP @ 8650'. Perforated 8240'-8250'; 8283'-8286'; 8302'-8306'; 8336'-8343'; 8390'-8394'; 8416'-8422'; 8509'-8515' w/ 1 jspf. Pumped 2522 bbls. X-linked gel w/ 44,000# 20/40 Premium Wh. Ottawa sand & 77,000# 20/40 CRC sand. Max pressure 4009#, Avg. press. 3232#. Max rate 82 bpm, Avg. rate 76 bpm. ISIP 921# BLWTR 2522
At report time still frac'ng; will have final report tomorrow;
Est Drlg \$864,130; Est Comp \$60,810; Est Tot \$924,940

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07-28-09 Finish frac.
 Stage #7: Set CBP @ 8220'. Perforated 8120'-8130'; 8156'-8166'; 8194'-8204' w/ 1 jspf. Pumped 2064 bbls. X-linked gel w/ 69,517# 20/40 Premium Wh. Ottawa sand & 21,982# 20/40 CRC sand. Max press. 5055#, Avg. press 3741#. Max rate 83 bpm, Avg. rate 76 bpm. ISIP 901# BLWTR 2064

Stage #8: Set CBP @ 8100'. Perforated 7796'-7804'; 7872'-7880'; 7950'-7958'; 7990'-7998'; 8064'-8072' w/ 1 jspf. Pumped 7334 bbls. X-linkd gel w/ 374,374# 20/40 Premium Wh Ottawa sand & 42,849# 20/40 CRC sand. Max press. 4262#, Avg. 3508#. Max rate 90 bpm, Avg. rate 83 bpm. ISIP 1053# BLWTR 7334 bbls.

Stage #9: Set CBP @ 7720'. Perforated 7578'-7584'; 7620'-7626'; 7642'-7650'; 7674'-7682'; 7704'-7706' w/ 1 jspf. Pumped 2039 bbls. X-linked gel w/ 83,802# 20/40 Premium WH. Ottawa sand & 41,548# 20/40 CRC sand. Max press. 5070#, Avg. press. 3779#. Max rate 81 bpm, Avg. rate 77 bpm. ISIP 1029# BLWTR 2039 bbls; Est Daily Comp \$380,100
 Est Drlg \$864,130; Est Comp \$440,910; Est Tot \$1,305,040

07-29-09 PO: Rigging up to drill out plugs; Est Daily Comp \$1600
 Est Drlg \$864,130; Est Comp \$442,510; Est Tot \$1,306,640

07-29-09 ND frac valve & cross; ND 7-1/16"x10K WH & send to J&W Svcs; weld on 5/5" bell nipple; Est Daily Comp \$500;
 Est Drlg \$864,130; Est Comp \$443,010; Est Tot \$1,307,140

07-30/08-02-09 SD due to weather; SDFWE; Est Daily Comp \$500;
 Est Drlg \$864,130; Est Comp \$443,510; Est Tot \$1,307,640

08-03-09 MIRU PU; move & set Hydra-walk & tbq; tally tbq; TIH w/212 ½ jts tbq; tg sd @ 6950'; SIW; SDFN; Est Daily Comp \$8465;
 Est Drlg \$864,130; Est Comp \$451,975; Est Tot \$1,316,105

08-04-09 AOL P/u power swivel. CO 75' sand on top of plug @ 7020'. DO plug. Pushed remainder of plug to sand & 7450'. Finished DO 1st plug & CO sand on top of plug @ 7520'. DO 2nd plug. Pushed remainder of plug to sand @ 7700'. Finished DO 2nd plug & CO sand on top of 3rd plug. DO plug @ 7725'. Pushed remainder of plug to sand on top of 4th plug @ 8070. DO remainder of 3rd plug & CO sand to 4th plug @ 8100'. Pushed remainder of plug to sand on top of 5th plug. Circulate well clean. POOH w/ 26 jts tbq. To get above perms. SIW SDFN Recovered estimated 1200 blw; Est Daily Comp \$6770;
 Est Drlg \$864,130; Est Comp \$458,745; Est Tot \$1,322,875

08-05-09 AOL Well had 240 psi. Continue milling out plugs. Mill out remainder of 4th plug. CO 30' sand on top of plug @ 8220'. Mill out 5th plug. Push remainder of plug to sand on top of plug @ 9300'. Finish milling out 5th plug. CO 27' sand on top of plug @ 9300'. Mill out 6th plug. Pushed remainder of plug to sand on top of plug @ 9700'. Finished milling out 6th plug. CO 174' sand on top of plug @ 9700'. Milled out plug. Circulate well clean. SIW SDFN; Est Daily Comp \$6370;
 Est Drlg \$864,130; Est Comp \$465,115; Est Tot \$1,329,245

08-06-09 AOL. Bled off pressure to pit. RIH and tagged plug at 9750'. NU power swivel. Establish circulation. Drill out plug. RIH with tbq to 11,223' and tagged fill. Cleaned out sand and remainder of plugs down to PBTD at 11,377'. Circulated hole clean. POH and layed down 135 jts of 2 7/8". Close wellin and shut down for day; Est Daily Comp \$9400;
 Est Drlg \$864,130; Est Comp \$474,515; Est Tot \$1,338,645

08-07-09 AOL; SITP 200#; bled off to pit; NU & pmpd 120 Bbls 10# to kill well; POOH & stood back 229 jts 2-7/8" tbq; RIH w/prod tbq & dwn hole gas sep as follows: 228 jts 2-7/8", 2-7/8" SN, 2-3/8" gas sep, 5-1/2" rot pkr, 2-7/8" SN, 5-1/2" TAC, 2-7/8" sd sub, 2-7/8" BPMA; SN @ 7460', TAC @ 7504'; btm of tbq @ 7541'; ND BOP & set TAC (18 pts tension); flange up WH; PU & RIH w/2-1/2"x1-1/2"x26" pmp, 8-1/2" wt bars & 30 - ¾" Tenaris rods; CWI & SDFD; Est Daily Comp \$15,551;
 Est Drlg \$864,130; Est Comp \$490,066, Est Tot \$1,354,196

08-08-09 AOL: OWU; PU & RIH w/rem rods, 1-1/2"x26" polish rods, 1"x8"x4' subs, 86 - 1", 117 - 7/8", 84 - ¾", 8 - 1-1/2" wt bars & 2-1/2"x1-1/2"x26" pmp; HWO & space out rods; longstroked well; good pmp action; RDMO & clean loc; Est Daily Comp 29,950;
 Est Drl \$864,130; Est Comp \$520,016; Est Tot \$1,384,146

08-10-09 MI & set Sentry C-640D-365-168 pmpg unit w/144" strk length; unit has 60 HP Oilwell electric mtr; hook up WH & clean loc; Est Daily Comp \$81,036;
 Est Drl \$864,130; Est Comp \$601,052; Est Tot \$1,465,182

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08-11-09 Electricity to be hooked up 8/13/09
08-13-09 Pmpd 0 BO + 456 BW + 0 MCF; BLW 24,605; BLWR 1656 (8%); BLWTR 22,949
08-14-09 Pmpd 0 BO + 460 BW + 0 MCF
08-15-09 Pmpd 0 BO + 494 BW + 0 MCF
08-16-09 Pmpd 0 BO + 459 BW + 0 MCF; BLW 24,605; BLWR 3069 (12%); BLWTR 21,536
08-17-09 Pmpd 0 BO + 338 BW + 0 MCF; BLW 24,605; BLWR 3407 (14%); BLWTR 21,198
08-18-09 Pmpd 0 BO + 275 BW + 0 MCF; FL = 5630' FOP; PIP = 2063 PSI; BLW 24,605; BLWR 3682 (15%); BLWTR 20,923
08-19-09 Pmpd 0 BO + 269 BW + 0 MCF; FL = 5630' FOP; PIP = 2063 PSI; BLW 24,605; BLWR 3951 (16%); BLWTR 20,654
08-20-09 Pmpd 0 BO + 290 BW + 0 MCF; BLW 24,605; BLWR 4,241 (17%); BLWTR 20,364
08-21-09 Pmpd 0 BO + 283 BW + 0 MCF
08-22-09 Pmpd 0 BO + 272 BW + 0 MCF
08-23-09 Pmpd 0 BO + 66 BW + 0 MCF; dwn 18 hrs, pwr off; BLW 24,605; BLWR 4,862 (20%); BLWTR 19,743
08-24-09 Pmpd 0 BO + 280 BW + 0 MCF; 5281' of fluid above pmp; PIP = 1913 PSI; BLW 24,605; BLWR 5142 (21%); BLWTR 19,463
08-25-09 Pmpd 0 BO + 224 BW + 0 MCF; BLW 24,605; BLWR 5366 (22%); BLWTR 19,239
08-26-09 Pmpd 0 BO + 296 BW + 0 MCF; BLW 24,605; BLWR 5662 (22%); BLWTR 18,943
08-27-09 Pmpd 0 BO + 269 BW + 0 MCF; BLW 24,605; BLWR 5931 (24%); BLWTR 18,674
Est Drlg \$864,130; Est Comp \$601,052; Est Tot \$1,465,182
08-28-09 Pmpd 0 BO + 271 BW + 0 MCF
08-29-09 Pmpd 0 BO + 280 BW + 0 MCF
08-30-09 Pmpd 0 BO + 277 BW + 0 MCF; BLW 24,605; BLWR 6759 (27%); BLWTR 17,846
Est Drlg \$864,130; Est Comp \$601,052; Est Tot \$1,465,182
08-31-09 Pmpd 0 BO + 245 BW + 0 MCF; FL = 4442' FOP; PIP = 1609 PSI; BLW 24,605; BLWR 7004 (28%); BLWTR 17,601
Est Drlg \$864,130; Est Comp \$601,052; Est Tot \$1,465,182
09-01-09 Pmpd 0 BO + 245 BW + 0 MCF f/above perfs; BLW 24,605; BLWR 7249 (29%); BLWTR 17,356
Est Drlg \$864,130; Est Comp \$601,052; Est Tot \$1,465,182
09-02-09 Pmpd 4 BO + 240 BW + 0 MCF f/above perfs; BLW 24,605; BLWR 7489 (30%); BLWTR 17,116
Est Drlg \$864,130; Est Comp \$601,052; Est Tot \$1,465,182
09-03-09 Pmpd 6 BO + 323 BW + 7 MCF f/above perfs; BLW 24,605; BLWR 7812 (32%); BLWTR 16,793
Est Drlg \$864,130; Est Comp \$601,052; Est Tot \$1,465,182
09-04-09 Pmpd 11 BO + 192 BW + 11 MCF f/above perfs
09-05-09 Pmpd 17 BO + 245 BW + 5 MCF f/above perfs
09-06-09 Pmpd 19 BO + 200 BW + 0 MCF f/above perfs
09-07-09 Pmpd 55 BO + 232 BW + 26 MCF f/above perfs; BLW 24,605; BLWR 8681 (35%); BLWTR 15,924
Est Drlg \$864,130; Est Comp \$601,052; Est Tot \$1,465,182
09-08-09 Pmpd 60 BO + 217 BW + 34 MCF f/above perfs; FL = 5403' FAP; PIP = 1987 PSI; BLW 24,605; BLWR 8898 (36%); BLWTR 15,707
Est Drlg \$864,130; Est Comp \$601,052; Est Tot \$1,465,182

6/22/09

Move rig to location.

6/23/09

RU – prep to spud. (expect to spud 6/24/09 pm).

6/25/09

DAS 1; **PD 435'** - PO: RIG UP - MAKE UP BHA, DRILL FROM 40' TO 151'. REPLACE MAKE UP CABLE AND WORK ON MAKE UP SHEAVE. DRILL FROM 151' TOL 182', WELD HOOK PLATE ON BLOCKS. DRILL FROM 182' TO 425', CIRCAND DROP SURVEY, TOOH AND L/D BHA. R/U EXPRESS CSG TOOLS, SAFETY MEETING, RUN 11 JTS 13 3/8" 48# J-55 STC. RIG DOWN CSG TOOLS, RIG UP CIRC HOSE, CIRC AND WORK CSG, HOLE TRYING TO PACK OFF. RIG UP HALLIBURTON AND PUMP 20 BBL WATER SPACER, MIX AND PUMP 400 SXS. C W/ 2% CaCl₂, 14.8 PPG 1.33 YLD 6.36 GPS H₂O, FULL RETURNS. CIRC 30 BBLS GOOD - CEMENT TO SURFACE. R/D HALLIBURTON AND WOC. MW 8.4; VIS 29 CWC \$96,648.00

6/26/09

DAS 2; **PD 865'** - PO: WAIT ON CEMENT. CUT OFF 13 3/8" CSG AND WELD ON HEAD. NIPPLE UP BOP'S, TEST BOP'S TO 250 PSI LOW AND 3000 PSI HIGH. PU BHA, TIH, BREAK CIRC AND DRILL CEMENT. DRILLING 425' TO 865'. MW 8.5; VIS 32 CWC \$153,699

6/27/09

DAS 3; **PD 2457'** – PO: DRILL F/870'-1030', SURVEY, WORK ON AUTO DRILL PMP SENSORS & CUT JUNK OUT OF MOUSE HOLE. DRILL F/1030'-1157' - WORK ON KELLY SPINNER. DRILL F/1157'-2457', SURVEY. MW 9.7; VIS 30 CWC \$207,610

6/28/09

DAS 4; **PD 3650'** – PO: DRILL F/2457'-2520', CHANGE OUT CONTROL BOX ON PMP. DRILL F/2520'-2641', WORK ON ELEC PROBLEM ON PMPS. DRILL F/2641'-3650', SURVEY. MW 9.7; VIS 30 CWC \$224,798

6/29/09

DAS 5; **PD 4770'** – PO: DRILL F/3650'-4770', SURVEY. MW 10; VIS 29 CWC \$239,936

6/30/09

DAS 6; **PD 5020'** – PO: DRLG 4770'-5020', SWEEP PILL, ADJUST BRAKE CALIPER, TOH. ADJUST BRAKE CALIPER, TWISTED OFF PIN IN DP AT THE FLOOR, WAIT ON OVERSHOT. MAKE UP OVERSHOT, PULL AND LAY DOWN JOINT, TOH. BLOCKS TWISTED WHILE PULLING THRU REDBEDS, UNTWIST SAME, TOH. RU LD MACHINE, LD 8" DC'S. MW 10; VIS 29 CWC \$250,661

7/1/09

DAS 7; **PD 5025'** – PO: LAY DOWN 6- 8" DRILL COLLARS, RIG UP EXPRESS CSG CREW AND SAFETY MEETING. RUN 8 5/8" CSG, RAN 32 JTS 32# HCK STC, 41 JTS 32# J-55 STC, 45 JTS, 24# J-55 STC, AND 2 JTS 32# ON TOP. WASH DOWN 32 JTS, TOTAL AT VARIOUS INTERVALS STARTING AT 1250', RIG DOWN CSG TOOLS. ATTEMPT TO INSTALL 2 DIFFERENT CIRC SWAGES. INSTALL HALLIBURTON AND WASH LAST JT TO BOTTOM, CIRC AT REDUCED RATE DUE TO BAD O-RING. INSTALL NEW O-RING IN CEMENT HEAD AND CEMENT W/ HALLIBURTON 20 BBL F/W SPACER, LEAD 1480 SX C + 1/2 # PER SX PHENO SEAL 11.9 PPG, 2.47 YLD TAIL 200 SX C, 14.8 PPG 1.33 YLD DISPLACED W/ 310 BBLS F/W, FULL RETURN. CIRC 210 BBLS CEMENT TO SURFACE, POB @ 4:30 AM, RIG DOWN HALLIBURTON. NIPPLE DOWN AND JET PITS. CWC \$366,436

7/2/09

DAS 8; **PD 5084'** - R/U NIPPLE UP CREW, N/D BOPS, SET SLIPS W/ 115,000# CUT OFF CSG AND TEST WELL HEAD. N/U AND TEST BOP'S, MAKE UP BIT AND BHA, TIH BREAKING EACH DC CONN. REPLACE MAKE UP AND BREAK OUT CABLES, TIH BREAKING EACH DP CONNECTION, TEST PIPE RAMS, LOAD PIPE RACKS AND STRAP DP. P/U DP AND TAG CEMENT, DRILL CEMENT AND PLUG. DRILLING 5025' TO 5034', TIGHTEN UPPER KELLY, DRILLING 5034' TO 5084'. MW 8.6; VIS 29 CWC \$ 440,699

7/3/09

DAS 9; **PD 5509'** – DRILL F/5044'-5192', RIG SERVICE. DRILL F/5192'-5509'. MW 8.5; VIS 29 CWC \$ 459,408

7/4/09

DAS 10; **PD 6015'** - DRILLING 5509' TO 5540', WATER FLOW SURVEY 5500' 1/2 DEG. INSTALL ROT HEAD, DRILLING 5540' TO 5698', RIG SERVICE. DRILLING 5698' TO 6015'. NOTE: HAVE TRIED MULTIPLE STRING WT, ROTARY SPEED AND PUMP STROKE COMBINATIONS TO IMPROVE BIT PERFORMANCE. MW 8.5; VIS 29 CWC \$ 476,911

7/5/09

DAS 11; **PD 6811'** – SURVEY 5975' .4 DEG, DRILL F/6015'-6269', RIG SERVICE. DRILL F/6269'-6490', SURVEY 6450' .4 DEG. DRILL F/6490'-6811'. MW 8.5' VIS 29 CWC \$ 491,181

7/6/09

DAS 12; **PD 7500'** – DRILL F/6811'-7001', SURVEY .9 DEG, RIG SERVICE. DRILL F/7001'-7254', TIGHTEN DOUBLE PIN ON SWIVEL. DRILL F/7254'-7500'. MW 8.4; VIS 29 CWC \$ 501,951

7/7/09

DAS 13; **PD 8200'** – PO: DRILL 7500' TO 7539', SURVEY .36 DEG. DRILL 7539' TO 7855', RIG SERVICE. DRILL 7855' TO 7886', C/O FILTER HOUSING ON HYD TANK. DRILL 7886' TO 8013', SURVEY 1.71 DEG. DRILL 8013' TO 8200'. MW 8.5; VIS 29 CWC \$512,721

7/8/09

DAS 14; **PD 9201'** – PO: DRILL 8200' TO 8394', SURVEY @ 8354'-1.02 DEG. DRILL 8394' TO 8648', RIG SERVICE. DRILL 8648' TO 8711', SURVEY @ 8669'- .71 DEG. DRILL 8711' TO 9201'. MW 8.5; VIS 29 CWC \$535,124

7/9/09

DAS 15; **PD 9960'** – PO: DRILLING F/ 9201' – 9223', SURVEY @ 9183 - .71. DRILLING F/ 9223' – 9477', SERVICE RIG. DRILLING F/ 9477' – 9731', TOH 1 STD FOR SCREEN & SURVEY @ 9699- .7. DRILLING F/ 9731' – 9960'. MW 8.5; VIS 29 CWC \$546,174

7/10/09

DAS 16; **PD 10,030'** – PO: DRILLING F/ 9960' – 10030', SERVICE RIG PUMP SOFTLINE. TOH F/HOLE IN PIPE - BOTTOM JT OF 118 CRACK 21" FROM BOX UPSET, ADJUST BRAKES. TOH & LAY DOWN BHA (TRI DC & REAMERS), ADJUST BRAKES. TIH W/ BIT # 4, CUT & SLIP 120' OF DRILLING LINE, FINISH TIH, WASH 60' TO BOTTOM. MW 8.5; VIS 29 CWC \$556,144

7/11/09

DAS 17; **PD 10,287'** – PO: DRILLING F/ 10,030' - 10,065', SERVICE RIG. DRILLING F/ 10,065' - 10,192', SURVEY @ 10,152'- .75 DEG. DRILLING F/ 10,192' - 10,287', PSI LOSS - PUMP SOFTLINE. TOH F/ HOLE IN PIPE, BOTTOM OF 132 STD BOX END 17" F/ UPSET, CUT 135' DRILLING LINE (BAD SPOT @ 130'), TIH. MW 8.5; VIS 29 CWC \$575,393

7/12/09

DAS 18; **PD 10,985'** – PO: TIH, SERVICE RIG (REPLACE ALL BOLTS ON MIDDLE DRIVE LINE). TIH & WASH 60' TO BOTTOM, DRILLING F/ 10,287' - 10,699', SURVEY @ 10,668'. DRILLING F/ 10,699' - 10,985', PSI LOSS - PUMP SOFTLINE, TOH. MW 8.5; VIS 31 CWC \$585,401

7/13/09

DAS 19; **PD 11,425'** - TOH F/ HOLE IN PIPE, TOP JT 123RD STD 15" FROM BOX END UPSET, SERVICE RIG. TIH, WASH 60' TO BOTTOM. DRILLING F/ 10,985' - 11,207', SURVEY @ 11,175'- .75 DEG. DRILLING F/ 11,207' - 11,425'. MW 8.6; VIS 31 CWC \$597,287

7/14/09

DAS 20; **PD 11,440'** - DRILLING F/ 11425' – 11440', CIRCULATE, SHORT TRIP 25 STANDS. P/UP KELLY & WASH TO BOTTOM, CIRCULATE BOTTOMS UP, LDDP 125 JTS TO 7500'. RIG UP & RUN FLUID CALIPER, LDDP & 6" DC'S, SERVICE RIG. RIG UP CASING CREW & TORQUE TURN, SAFETY MEETING W/EXPRESS, RUNNING 5 1/2" CASING. MW 8.6; VIS 31 CWC \$619,062

7/15/09

DAS 21; **PD 11,440'** -RUN 5 1/2 CASING - RAN A TOTAL OF 297 JTS, 20 & 17# L-80 -11,443' HOOK UP SWEDGE & WASH 8' TO BOTTOM. CIRCULATE & SAFETY MEETING W/HALLIBURTON, CEMENT 1ST STAGE W/ 800 SKS "H" @ 14.4 PPG YIELD 1.2 BUMP PLUG @ 2:27 PM @1640 PSI. INCREASE TO 2200 PSI - RELEASE PSI - FLOATS HELD DROP BOMB, OPEN DV TOOL & CIRCULATE (112 SKS OF CMT TO PIT). CEMENT 2ND STAGE; LEAD W/550 SKS ECONO CEM "H" @ 11.9 PPG 2.49 YIELD TAIL W/ 100 SKS "H" NEAT BUMP PLUG @ 10:00 PM W/1060 PSI INCREASED TO 2500 PSI - RELEASE PSI - HELD OK. RIG DOWN HALLIBURTON, WOC. SAFETY MEETING & RIG UP BOP LIFTS & NIPPLE DOWN. P/ UP STACK, SET CASING SLIPS (150K), CUT OFF CASING, NIPPLE UP HEAD & TEST 2000#, JET PITS. **RIG RELEASED @ 6:00 AM.** CWC \$684,652

7/16/09

DAS 22; **PD 11,440'** – PO: RD & PREP TO MOVE TO ANDREWS UNIV 29-4. CWC \$854,730