

Cambrian Management Daily Drilling Report

Well Name:	University Andrews 8 #3			Date:	9/2/2011		Report #:	12		Planned TD:	11,000'	
Spud Date:	8/3/2011			Rig Name:	JW Rig 5		Rig Phone:	325-725-2294				
Present Ops:	Rigging Down For Move to ULS Andrews 42 #1									Deviation Surveys		
Depth:	10997	Footage:	445	Consultant:	Jeremy Chappell						Depth:	Angle:
Mud Engineer:	Steve Spiers			Mud Co.:	Buckeye							
Type:	MW	ECD:	Vis	PV:	YP	Gel-Initial:	Gel-10 min	Cake:				
Brine:	10		29									
WL:	Solids:	% Oil:	% Water:	Mud Losses:	pH:	Pm:	Pf:	Mf:				
					10							
CL:	CA	LCM:	Washout(% vol):			Pit Vol:	Stored Vol:	Min To Bit:	Btms Up:	Full Circ:		
								16 min	52 min	75 min		
WOB Mn/Mx:	RPM Mn/Mx:	GPS:	SPM:	GPM:	Pressure:	DC wt/mud:	Rot wt:	PU wt:	SO wt:			
From:	To:	Hours:	Activity for Previous 24 Hours									
700am	800am	1.00	LD DP									
800am	830am	0.50	RU Csg Crew & PJSM									
830am	400pm	7.50	Run 5 1/2" 17# N-80 Casing (Float Shoe, 1 Jt, Float Collar, 261 Jts) Centralizer Every 3rd Jt To 8167', Set Depth 10997'									
400pm	430pm	0.50	RD Csg Crew									
430pm	500pm	0.50	PJSM & RU Cement Crew									
500pm	715pm	2.25	Wait on OTEX to Repair Communication Equipment									
715pm	1000pm	2.75	Pump 20 BBL Fresh Water, 200 BBL Nitrified Mud, 20 Fresh Water, 240SX Class C Lead Cement 30#/sk CSE2+3#/sk KOLSEAL+ 1/4#/SK CELLOFLAKE+3.75% SMS, 650 SX Class H Tail Cement 7/10% C-47, Drop Plug, Dissplace with Acetic Acid 84 BBL of 254 BBL, Pressure went from 164psi to 3500psi, Begin Reciprocating Pipe, Pressure Remained 4000psi, Bleed Off Pressure, Attempt to Pump Again Pressured up to 4500 psi, Attempt to Reciprocate Pipe Pulled 75k Over String Weight, Pressure Remained 4500psi, Work Pipe Attempting To Get Pumps Back, Bleed off Pressure, Slack off to Neutral String Weight and Attempt to Pump, Pressured Up to 4560 psi, Bleed Off Pressure and Shut dwnr									
1000pm	1030pm	0.50	RD Cementers									
1030pm	130am	3.00	ND BOP									
130am	300am	1.50	Cut Casing, Set Slips, Install Tubing Head, Release Rig @ 3:00am									
300am	700am	4.00	RD for Move									
TOTAL HOURS:		24.00										
Accident/Safety Info: (record name of any individual involved in an incident + details)			No Accidents Or Injuries Reported									
Bit No:	Size:	Mfg:	Type:	SN:	Jets:	In:	Out:	Ftg:	Hrs:	ROP:		
1	12.25	Hughes	GX4	S185994	6X14	40'	1764	1724	26	66.3		
2	7 7/8"	HTC	Q605FX	7136317	6X14	1764	8791	7027	86	81.71		
3	7 7/8"	HTC	Q506FX	7132136	6X13	8791	10178	1387	31.5	44.03		
4	7 7/8"	HTC	Q506FX	7024757	6X13	10178	10997	819	19.25	42.54		
5	0	0	0	0	0	0	0	0	0	0		
6	0	0	0	0	0	0	0	0	0	0		
7	0	0	0	0	0	0	0	0	0	0		
8	0	0	0	0	0	0	0	0	0	0		
Bit No. Grading:	Inner:	Outer:	Dull Char:	Location:	Bearings:	Other:	Gauge:	Rson Pld:	Comments:			
4	7	8	7	inner			8	TD				
BHA										BHA Length:		
	Size:	Wt.:	Grade:	Conn.:	Jts:	Length:	Jts/Loc:	String Volume:	bbls:			
Drill Pipe (bottom)	0	0	0	0	0	0	0					
Drill Pipe (middle)	0	0	0	0	0	0	0					
Drill Pipe (top)	0	0	0	0	0	0	0					
Assumed Pump Eff			Pump No. 1:	Pump No. 2:			Slow Pump Rate					
	Type:	Liner OD:	Length:	GPS (100%):	SPM:	GPM:	Pressure:	Depth:	SPM:	Pressure:		
Pump No. 1	pz9	6.5	9	3.679	110	405	2000	0	0	0		
Pump No. 2	pz9	6.5	9	3.679	110	405	2000	0	0	0		
	# of Jts:	Length (ft):	OD:	Weight:	Grade:	Joint:	Thread:	Class:	Date Set:			
Conductor	1	40'	16"	0	0	0	0	0	8/21/11	0		
Surface	42	1749.58'	9 5/8"	36	J55	0	STC	0	8/24/11	0		
Intermediate										0		
Production	262	11002	5 1/2"	17	N-80	0	LTC	0	9/2/11	0		
LOADS FRESH WATER HAULED:					LOADS BRINE WATER HAULED:							
VOLUME F WATER HAULED (bbls):					VOLUME B WATER HAULED (bbls):							
Expense Category			Vendor			Description			Cost			
RIG SUPERVISION			Ervin Wellsite Consulting			Day rate on site supervision			\$ 1,200			
CONTRACT DRLG DAY WORK			JW Drilling			Day rate drilling			\$ 17,000			
OTHER RENTALS			Ameri Flush			Day rent porta potty's & trash trailer			\$ 80			
ENVIRONMENTAL & SAFETY			American Safety			Day rent H2S Equipment			\$ 65			
CASING CREW & TOOLS			Permian Power Tong			Casing Crew			\$ 6,200			
CEMENTING			Otex			Cement 5 1/2" Casing			\$ 51,863			
CASING			Cressman			5 1/2" Casing \$14.60/FT			\$ 160,629			
CASING CREW & TOOLS			Permian Power Tong			Lay Down Machine			\$ 6,275			
CEMENTING			Pro Petro			Nitrogen Pumping Unit			\$ 4,500			
Daily Mud Cost:						Cumulative Mud Cost:			\$0			
Daily Well Cost:			\$247,812			Cumulative Well Cost:			\$740,772			
AFE Cost Estimate:						AFE \$ Remaining						

Cambrian/XOG
DAILY OPERATIONS REPORT

University Andrews 8 # 3

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University Andrews 8 # 3

Andrew s Co., TX

XOG#:

Zone: 1 Field:

Original Completion

Sep 29, 2011 Thursday (Day 1)

AOL at the University Andrews 8 #5. Moved 2 3/8" tubing off of pipe racks to the edge of location on sills. Total 334 jts. Moved rig to University Andrews 8 #3. Prepared to RU, spot rig mats & RU pulling unit. ND WH. NU BOP. Prepared to run 2 7/8" work string. Spot & set pipe racks. Unload 355 jts of 2 7/8" tubing & put on pipe racks. Move in & set reverse equipment up. Move & set frac tank in. RU reverse unit. Prepare to pick up tubing & drill collars. Tally 110 jts 2 7/8" tubing, measure & caliper 6 drill collars. PU 4 3/4" bit, bit sub, 6 drill collars & cross over. RIH w/ 109 jts & tag @ 3,685'. Prepare to drill. NU BIW stripper. Close well in. SDFD.

Daily Cost: \$15,030

Cum. Cost: \$755,802

Sep 30, 2011 Friday (Day 2)

AOL. TIH w/ 2 jts and tag. PU swivel & prepare to drill. Break circulation, pump 2 1/2 bbls per min. Start drilling at 3,680', drill 20' cement, start drilling rubber from wiper plug. Drill up plug. Continue to drill. Drill cement from 3,700' to 3,860'. Circulate hole clean, LD swivel. Pull 2 jts. SWI & SDF weekend.

Daily Cost: \$7,800

Cum. Cost: \$763,602

Oct 3, 2011 Monday (Day 3)

AOL. Open & check well. RIH w/ 2 jts. PU power swivel. Break circ & start drill. Drill cement from 3860' to 4122'. Circ hole clean. Stand swivel back. TOH w/ 2 3/8" work string to change bit. Stand back drill collars. PU 4 3/4" blade bit. RIH w/ DCs and 2 3/8" work string to 4088'. SWI & SDFD.

Daily Cost: \$8,530

Cum. Cost: \$772,132

Oct 4, 2011 Tuesday (Day 4)

AOL. Open & check well. No pressure. Pick up 1 jt w/ power swivel. NU BIW stripper. Break circ & start drilling. Drill from 4122' to 4346'. Circ hole clean. Total cmt drilled for day 224'. Stand swivel back. ND BIW stripper. Start TOH w/ 2 7/8" work string to change bit. Pulled 80 jts. SWI & SDFD.

Daily Cost: \$8,520

Cum. Cost: \$780,652

Oct 5, 2011 Wednesday (Day 5)

AOL. Open & check well. Continue to TOH w/ 2 7/8" work string. Change out bits, start run in hole w/ 4 3/4" bearclaw bit, bit sub, 6- 3 1/8" drill collars, cross over & 2 7/8" work string. NU BIW stripper. PU power swivel, break circulation pumping down tubing @ 3 1/2 bbls per min. Drilling from 4346' to 4480'. Making 40-50 fph. Circulate hole clean, stand back swivel and pull 2 jts. SWI & SDFD.

Daily Cost: \$9,570

Cum. Cost: \$790,222

Oct 6, 2011 Thursday (Day 6)

AOL. Open & check well. RIH w/ 2 jts. PU power swivel. Break circ pumping down tubing at 3 1/2 bbls per min. Start drilling from 4480' to 4824'; circ hole clean. Stand swivel back, pull 2 jts. SWI & SDFD. Total cmt drilled 344' / 11 hrs.

Daily Cost: \$8,585

Cum. Cost: \$798,807

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Andrew s Co., TX

XOG#:

Zone: 1 Field:

Oct 7, 2011 Friday (Day 7)

AOL. Open & check well. RIH w/ 2 jts. PU swivel. Break circ pumping down tubing 3 1/2 bbls per min. Tag & start drilling from 4,824'. Drill to 5144'. Circ hole clean. Stand swivel back. Pull 2 jts. SWI & SD. Total cement drilled 320', 10 bit hours for day.

Daily Cost: \$9,785

Cum. Cost: \$808,592

Oct 8, 2011 Saturday (Day 8)

AOL. Open & check well. RIH w/ 2 jts, PU swivel, break circulation. Pumping 3 1/2 bbls per min. Start drilling at 5144'. Drill to 5499'. Circulate hole clean, stand swivel back, pull 2 jts. SWI & SDFD. Total cement drilled for day, 355'. Total bit hours for day 11. Will begin working 24 hours today.

Daily Cost: \$10,885

Cum. Cost: \$819,477

Oct 11, 2011 Tuesday (Day 9)

AOL. Open & check well. RIH w/ 2 jts. PU swivel. Break circulation. Pumping down tbg at 3 1/2 bbls per min. Start drilling at 5499' to 5515'. Penetration was 4 1/2 min per ft. Circ hole clean. Stand back swivel. Start TOH to check bit. Pull out of hole w/ 167 jt. Stand back 6 drill collars. Break off bit. PU new 4 3/4" bearclaw. Run back in hole. NU BIW Stripper. PU swivel. Break circ going reverse. Start drilling at 5515' to 5591'. Crew change at 7:00 pm. Continue drilling from 5591' to 5721'. Had to change out power swivel. Back to drilling at 7:00 am. Total cement drilled 222'. Average about 1 1/2 hours per jt. Drilling hours on bit, 8 hours.

Daily Cost: \$19,285

Cum. Cost: \$838,762

Oct 12, 2011 Wednesday (Day 10)

7:00 am Change crews. Cont. drilling. Drill from 5721' to 5913'. At 6:00 pm the penetration rate was 1 1/2 hrs. every 30'. Pumping reverse 2 1/2 bbls per min. Cont. drilling. Drill from 5913' to 6132'. Total ft drilled in a 24 hrs is 411' ft. Hrs on bit 22 hrs. 7:00 am crew change.

Daily Cost: \$15,305

Cum. Cost: \$854,067

Oct 13, 2011 Thursday (Day 11)

7:00 am Continued drilling from 6132'. Circ reverse at 3 bbls/min. Drill to 6294'. 7:00 pm Crew change. Cont. to drill from 6294' pumping reverse at 3 bbls/min. Drill to 6582'. Total cement drilled 24 hrs 450'. Average penetration per jt 1 1/2 hr. Total bit hrs for day 22hrs.

Daily Cost: \$16,285

Cum. Cost: \$870,352

Oct 14, 2011 Friday (Day 12)

7:00 am to 7:00 pm Continue to drill from 6582' to 6838'. Break Tour and change @ 7:00 pm. 7:00 pm to 7:00 am Drill from 6838' to 7092'. Average penetration per jt is 1 1/2 hr. Pumping reverse @ 3 BPM. Total drilled in 24 hr is 510'. Total hrs on bit was 22 hrs.

Daily Cost: \$16,285

Cum. Cost: \$886,637

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University Andrews 8 # 3

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Zone: 1 Field:

Oct 15, 2011 Saturday (Day 13)

7:00 am to 7:00 pm Continue drilling from 7092' to 7347'. Break tour and change crews.

7:00 pm to 7:00am Continue to drill. Drill from 7347' to 7604'. Total cement drilled in 24 hrs is 512'. Average Penetration per jt is 1 1/2 hrs. Total bit hours is 22.

Daily Cost: \$16,285

Cum. Cost: \$902,922

Oct 16, 2011 Sunday (Day 14)

7:00 am to 7:00 pm Continue drilling from 7604' to 8146'. Starting penetration rate was 1 1/2 hrs per jt. from 7604' to 7831'. Penetration rate changed 30 min per jt, from 7831' to 8146'.

7:00 pm to 7:00 am. Crew change. Continue to drill from 8146' to 8338'. Total cement drilled for 24 hr was 734' ft. Bit hrs 22. Penetration rate changed back to 1 1/2 hr per jt.

Daily Cost: \$17,285

Cum. Cost: \$920,207

Oct 17, 2011 Monday (Day 15)

7:00 am to 7:00 pm Continue drilling from 8338' to 8563'. Penetration rate 1 1/2 hr per jt.

7:00 pm to 7:00 am Continue to drill. Drilling from 8563' to 8782'. Hrs on bit 22, drilling rate 1 1/2 per jt. Total cement drilled in 24 hr was 444'.

Daily Cost: \$17,385

Cum. Cost: \$937,592

Oct 18, 2011 Tuesday (Day 16)

7:00 am to 7:00 pm. Continue drilling from 8782' to 9006'. Circ reverse at 3 bbls per min. Average drill rate per jt is 1 1/2 hr.

7:00 pm to 7:00 am. Change crews & continue drilling. Drill from 9006' to 9328', drill rate changed to 1:10 min per jt. Total cement drilled for 24 hr was 546'.

Daily Cost: \$16,285

Cum. Cost: \$953,877

Oct 19, 2011 Wednesday (Day 17)

7:00 am to 7:00 pm. Continue to drill. Drill from 9328' to 10,058'. Had spots of hard cement & spots of soft cement.

7:00 pm to 7:00 am. Continue to drill. Drill from 10,058' to 10,475'. Cement started getting hard. Total cement drilled for 24 hr was 1147'. Bit hrs is 22.

Daily Cost: \$17,285

Cum. Cost: \$971,162

Oct 20, 2011 Thursday (Day 18)

7:00 am Continue Drilling from 10,475' to 10,907'. Circulate hole clean with fresh water. Lay swivel down. Start TOH w/ 2 7/8" work string. Pull 30 jts. SWI & SDFN.

Daily Cost: \$13,335

Cum. Cost: \$984,497

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Zone: 1 Field:

Oct 21, 2011 Friday (Day 19)

AOL, Open & check well. Cont. to trip out of hole with tubing. Pull total of 335 jts 2 7/8 tubing. Prepare to wireline. Stand by for wireline truck to arrive on location. Clean & jet out pits. Wireline tied up on another job. Set wireline up to do bond log on Monday am. Close well in. Shut down for day.

Daily Cost: \$11,085

Cum. Cost: \$995,582

Oct 24, 2011 Monday (Day 20)

AOL. Open & check well. RU WSI Wireline truck to run logs. Ran CR/CBL/CNL/CCL. Finished logging @ 2:30 pm. RD WSI Wireline. SWI and SDFD.

Daily Cost: \$20,685

Cum. Cost: \$1,016,267

Oct 25, 2011 Tuesday (Day 21)

AOL. Open & check well. RIH w/ 335 jts 2 7/8" tbg. Start out of hole laying down 2 7/8" work string. LD 335 jts. Operations suspended to evaluate logs. RD pulling unit. SWI. Prepare to road rig to yard.

Daily Cost: \$8,485

Cum. Cost: \$1,024,752

Dec 7, 2011 Wednesday (Day 22)

Nine stage fracture completed by Trican, supervised by Larrez Green. Total bbls left to recover - 21,606 bbl.

Stage 1 Perf - 10,365' - 10,529'

Stage 2 Perf - 10,144' - 10,266'

Plug @ 10,312'

Stage 3 Perf - 9,666' - 9,846'

Plug @ 10,092'

Stage 4 Perf - 9,432' - 9,586'

Plug @ 9,615'

Stage 5 Perf - 9,091' - 9,348'

Plug @ 9,386'

Stage 6 Perf - 8,638' - 8,991'

Plug @ 9,042'

Stage 7 Perf - 8,087' - 8,302'

Plug @ 8,590'

Stage 8 Perf - 7,859' - 8,020'

Plug @ 8,050'

Stage 9 Perf - 7,539' - 7,786'

Plug @ 7,810'

Safety Plug @7,480'

Daily Cost: \$558,177

Cum. Cost: \$1,582,929

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Zone: 1 Field:

Dec 8, 2011 Thursday (Day 23)

MI reverse unit, pipe racks, cat walk & rig mat and set up. Call Weaver Construction to have loader on location in the AM to push mud off and clean location and 184 jts of 2 3/8" tbg was moved from the University Andrews 8 #1 to the University Andrews 8 #3. Will have rig and remainder of tubing on location in the AM.

Daily Cost: \$8,000

Cum. Cost: \$1,590,929

Dec 9, 2011 Friday (Day 24)

Weaver Construction arrived on location w/ loader. Cleaned mud off and assisted w/ moving in of rig and flowback tanks. Wellhead Works arrived on location to ND frac stack and NU wellhead. Moved 92 jts of 2 3/8" tbg was moved from the University Andrews 42 #1 to the University Andrews 8 #3 and rack. Also rack 2300' delivered from DGM. MIRU service unit. NU BOP, flowback & tally tubing. PU mill and RIH w/ tubing to 7,147'. SWI & SDFD @ 6:00 pm. Will tag up and begin drill out in the AM.

Daily Cost: \$17,000

Cum. Cost: \$1,607,929

Dec 10, 2011 Saturday (Day 25)

AOL @ 7:30 am. Continue to PU tbg and tag plug #1. RU swivel, PU string float, NU stripper head and begin drill out. Drill out plug #1 w/ well flowing 3.5 bpm @ 700 psi on 35/64. Strong H2S Present. Drill out #2 w/ well flowing 6 bpm @ 620 psi on 35/64. Blew out BIW rubber; shut BOP & change rubber. Drill out #3 w/ well flowing 6 bpm @ 750 psi on 35/64. Blew another BIW rubber, changed out and circulate. POOH to 7,471' and turn over to flowback. Pull down to 2 bpm @ 900 psi on 14/64. SDFD @ 6:00 pm.

Daily Cost: \$20,650

Cum. Cost: \$1,628,579

Dec 11, 2011 Sunday (Day 26)

AOL @ 7:30 am. Well flowing 2 bpm @ 825 psi on 15/64. RIH w/ tbg and continue drill out. Drill out #4 w/ well flowing 2 bpm @ 700 psi on 23/64. Drill out #6 w/ well flowing 2 bpm @ 700 psi on 23/64. Drill out #7 w/ well flowing 2 bpm @ 700 psi on 23/64. Run to #8 and circulate clean. POOH to 7,471' and turn over to flow back. Will finish drill out in AM. SDFD @ 6:00 pm.

Daily Cost: \$18,100

Cum. Cost: \$1,646,679

Dec 12, 2011 Monday (Day 27)

AOL @ 7:30 am. Well flowing 0.5 bpm @ 850 psi on 6/64. Ran out of room and trucks not running due to fog conditions. RIH w/ tbg to plug #8 and resume drill out. Drill out #8 and #9 w/ well flowing 2 bpm @ 700 psi on 12/64. RIH to 10,594' and circulate clean. RD swivel and POOH & LD to 7,471'. Flange up on BOP, pump 30 bbls brine down tbg. Pull string float and NU master valve. RU on tbg and turn over to flowback. Release rig, reverse unit and will move off in the am. SDFD @ 8:00 pm

Daily Cost: \$18,100

Cum. Cost: \$1,664,779

Jan 5, 2012 Thursday (Day 28)

PJSM. MI & Spot rig. Set cement base (Sentry 466D pumping unit). Set in 120" stroke length w/ 50 HP motor. SDFN.

Daily Cost: \$850

Cum. Cost: \$1,665,629

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Andrew s Co., TX

XOG#:

Zone: 1 Field:

CONTINUED: Original Completion

Jan 10, 2012 Tuesday (Day 31)

PJSM. Opened well had TP @ 150 psi & CP @ 50 psi. Opened up well to frac tank and bled well (2.5 hours) down. RIH w/ 89 jts of 2 3/8" L80 tbg & BHA. ND BOP & Set BHA as follows:

238 jts of 2 3/8" L80 tbg @ 7,389'
5 1/2"x2 3/8" TAC @ 7391.38'
1 jt of 2 3/8" L80 tbg @ 7,423'
2 3/8" Enduralloy (blast joint) @ 7,456.38'
2 3/8" SN @ 7,457.48'
MA w/ BP @ 7,490'

Set TAC w/ 16 pts. Flanged up wellhead. SWI & SDFN.

Daily Cost: \$3,635

Cum. Cost: \$1,680,609

Jan 11, 2012 Wednesday (Day 32)

PJSM. Opened well up and bled off pressure. PU & RIH w/

1.25" x 22 polished rod w/ 18' x 1 1/2" polished rod liner
8' x 0.875, 4'x.0875 subs
88-0.875 (Norris 97) rods
197-.75 (Norris 97) rods
10-1.625 sinker bars
4' x .75 stabilizer
20-150-RXBC-20-3 pump

Roustabouts built wellhead connections & tied well to frac tank. Electricians wired pumping unit electric motor, electrical panel & wiring to service pole. SDFN.

Daily Cost: \$47,453

Cum. Cost: \$1,728,062

Jan 12, 2012 Thursday (Day 33)

PJSM. SD waiting on electricians to finish running electrical service for unit. Hung well on attempted to space out pump. Found pump tagging on the up and down stroke. Pump company delivered the wrong size. Checked amps on pumping unit and found unit to be weight heavy. Pulling 95 amps on the weights and 34 amps on the rods. POOH & ran the correct pump (20-150-RXBC-20-3). Max stroke 183". Nolan Brunson balanced the unit and left pulling 59 amps on weights and 50 amps on the rods. SD unit & SWI/SDFN.

Daily Cost: \$43,141

Cum. Cost: \$1,771,203

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Zone: 1 Field:

Jan 13, 2012 Friday (Day 34)

PJSM. RD PU. Opened well to test tank and turned unit on. Called and gave info to pumper. Moved Rig to next location.

-----FINAL REPORT-----

Daily Cost: \$687

Cum. Cost: \$1,771,890