

**BAM Permian Operating, LLC
University Amanda #3
2003 FWL & 1877 FNL
Section 6, Block 30 ULS
Crane County, TX
API: 42-103-36543
Drilling Permit: 810420**

10/18/2015-Day 1

Depth-684'

Finish rigging up O'Rryan #8. MU BHA & Bit. Mix spud mud and spud in at 5:00 PM. Drill F/ Surface T/ 684' in 13 hrs.

ROP-57, MW-8.4, Visc-33, Survey-0.5 deg @ 492'

DWC: \$5,200

CWC: \$186,515

*CWC carried forward to include Location, Damages, Surveys, Permits, Water, Move-In, Etc.

10/19/2015-Day 2

Depth-906'

Drill 684-906' in 1.5 hrs. Circulate hole clean. TOH & LD BHA. RIH w/ 13-3/8" BTC FS, 13-3/8" 54.50# J-55 BTC shoe jt, 13-3/8" BTC FC, 31 jts 13-3/8" 54.50# J-55 BTC and land casing at 906'. Circulate hole clean & rig up OTEX cementing. Pump Lead-450 sx 12.9# 35:65:6 POZ C w/ ¼#/sk Cello Flake, 3% Salt & 0.004 gps CF-41L, Tail-325 sx 14.8# Class C w/ 2% CaCl₂ & 0.004 gps CF-41L. Displace w/ 136 bbl FW and bump plug to 900 psi circulating 265 sx to surface. Bleed back 1 bbl, floats held. WOC 4 hrs. Cut off Conductor and Surface casing. Weld on 13-3/8" Wellhead, NU BOP and rotating head.

DWC: \$51,685

CWC: \$238,250

10/20/2015-Day 3

Depth-2,000'

Test BOP to 250 psi low/1,000 psi high. TIH w/ 11" bit/BHA & tag cement at 879'. Drill out FC/FS.

Drill F/ 906' T/2,000' in 14 hrs.

ROP-78, MW-9.7, Visc-29, PH-10, Survey-1.0 deg @ 1,887'.

DWC: \$51,000

CWC: \$289,250

10/21/2015-Day 4

Depth-3,010'

Drill ahead F/2,000' T/3,010' (1,010' in 22.5 hrs), 44.9 ft/hr.

ROP-41.6, MW-10.1, Visc-29, PH-10, Survey 1.0 deg @ 2,927'.

DWC-\$1,950

CWC-\$291,200

10/22/2015-Day 5

Depth-3,750'

Drill ahead F/3,010' T/3,750' (740' in 14.5 hrs), 51.0 ft/hr. TD intermediate hole at 3,750', condition mud, circulate and pump 80 bbl sweep. TOH, LD 8" DC's, Reamers & Shock Sub. RIH w/ 8-5/8" FS, 1 jt. 8-5/8" 32# HCK-55 STC, 8-5/8" FC, 9 jts. 8-5/8" 32 # HCK-55 STC, 40 jts. 8-5/8" 32# J-55 STC, 40 jts. 8-5/8" 24# J-55 STC & set at 3,750'. Circulate hole clean. MIRU OTEX. Test lines to 2,500 psi. Pump 20 bbl FW spacer & Lead-665 sx 11.8# 50:50 POZ C w/ 10% gel, ¼#/sx Cello Flakes, 5% Salt, 0.004gps CF-41L. Tail-200 sx Class C, 2% CaCl₂, 0.004 gps CF-41L. Displace w/ 230.5 bbl FW, bump plug to 1450 psi. Circulate 7 sx cement to surface. RDMO OTEX.

Survey-0.5 deg @ 3,715'

DWC: \$70,070

CWC: \$361,270

10/23/2015-Day 6

Depth-3,930'

ND BOP. Install and set slips on WH. Cutoff casing, NU "B" section & BOP. Test BOP to 250 psi/L and 1,000 psi/H. MU 7-7/8" bit, BHA and RIH to 3,652'. WOC 4 hrs. Test casing to 600 psi. Drill out FC & FS. Drill F/3,750 T/3,930' (180' in 7.5 hrs), 24 ft/hr. ROP-22.5, MW-9.2, Visc-28, PH-12, Survey-N/A

DWC: \$3,000

CWC: \$364,270

10/24/2015-Day 7

Depth-4,480'

Drill ahead F/3,930 T/4,480' (550' in 24 hrs), 22.9 ft/hr.
ROP-18, MW-9.2, Visc-28, PH-10, Survey-0.75 deg @ 4,212'

DWC: \$1,000

CWC: \$365,270

10/25/2015-Day 8

Depth-5,013'

Drill ahead F/4,480 T/4,508'. ROP dropped below 10 ft/hr for 4 hrs. TOH & replace bit. TIH & resume drilling F/4,508 T/4,759'. Down 1.5 hrs due to miss runs on directional survey before getting good shot. Drill F/4,759 T/5013' (533' in 14 hrs), 38 ft/hr. Lost full returns at 4,990'. Mix and pump LCM pills and regain full returns.
ROP-48, MW-9.2, Visc-28, PH-10, Survey-0.5 deg @ 4,712'

DWC: \$2,200

CWC: \$367,470

10/26/2015-Day 9

Depth-5,959'

Drill ahead F/5,013 T/5,959' (946' in 23 hrs), 41.1 ft/hr. Con't pumping LCM pills/sweeps for minor seepage of approximately 15 bbl/hr.

ROP-48, MW-9.2, Visc-28, PH-10, Chlor-69,000, Survey-1.0 deg @ 5,695'

DWC: \$154,000

CWC: \$521,470

10/27/2015-Day 10

Depth-6,729'

Drill ahead F/5,959' T/6,729' (770' in 21.5 hrs), 35.8 ft/hr. Lost circulation at 8 bbl/hr or less, con't pumping LCM pills. Last survey at 6,639' at 4.0 deg, will TOH to run motor and directional tools.

ROP-8, MW-9.2, Visc-28, PH-10, Chlor-69,000, Surveys-0.75 deg @ 6,139', 4.0 deg @ 6,639'

DWC- \$2,410

CWC- \$523,880

10/28/2015-Day 11

Depth-6,985'

Drill ahead F/6,729' T/6,756'. Spot 80 bbl LCM pill to 4,100'. TOH & LD bit and BHA. PU & RIH w/ bit, motor and MWD tools. Check survey w/ MWD as follows:

6,050'-1.9 deg

6,146'-2.3 deg

6,177'-2.5 deg

6,272'-2.8 deg

6,367'-3.0 deg

6,462'-3.0 deg

6,557'-3.5 deg

6,652'-3.7 deg

6,683'-3.7 deg

Slide drill 6,756-6,765', Rotate drill 6,765-6,827', 4.2 deg @ 6,766'. Slide drill 6,827-6,837', Rotate drill 6,837-6,953', 1.9 deg @ 6,903'. Slide drill 6,953-6,958', Rotate drill 6,958-6,985' (256' in 11.5 hrs), 22.2 ft/hr.

ROP-42, MW-9.2, Visc-29, PH-10, Chlor-69,000, Survey-1.9 deg @ 6,903'

DWC: \$3,550

CWC: \$527,430

10/29/2015-Day 12

Depth-7,194'

Rotate drill 6,985-7,017'. Slide drill 7,017-7,024', Rotate drill 7,024-7,049. Survey-0.9 deg @ 7,030'. Circulate bottoms up w/ full returns. TOH & LD directional tools/motor. PU & RIH w/ bit, motor, teledrift. Pump high visc sweep and ream 6,784-7,149'. Mud up & Drill actual 7,149-7,194' (209' in 7.5 hrs), 27.9 ft/hr.

ROP-22, MW-9.2, Visc-39, PH-9, Chlor-69,000, Survey-0.7 deg @ 7,093'.

DWC: \$2,500

CWC: \$529,930

10/30/2015-Day 13

Depth-7,689'

Drill F/7,194 T/7,689' (495' in 23.5 hrs), 21.0 ft/hr.

ROP-34, MW-9.5, Visc-35, PH-10, Chlor-106,500, WL-6, Survey-0.7 deg @ 7,591'.

DWC: \$3,800

CWC: \$533,730

10/31/2015-Day 14

Depth-8,008'

Drill F/7,689 T/8,008' (319' in 14.5 hrs), 22 ft/hr. TOH to replace bit due to low ROP. TIH w/ bit #7, filling up every 30 jts. Begin mudlogging at 7,800'.

ROP-N/A, MW-9.6, Visc-37, PH-10, Chlor-102,000, WL-5, Survey-1.1 deg @ 7,937.

DWC: \$6,100

CWC: \$539,830

11/1/2015-Day 15

Depth-8,358'

FIH & Drill F/ 8,008 T/8,013'. Motor failure, TOH to replace motor. PU new motor, TIH & drill 8,013-8,358' (350' in 11 hrs), 31.8 ft/hr.

ROP-46, MW-9.9, Visc-36, PH-10, Chlor-115,000, WL-4, Survey-0.3 deg @ 8,358'

DWC: \$2,050

CWC: \$541,880

11/2/2015-Day 16

Depth-8,579'

Drill F/8,358 T/8,486'. ROP dropped to 5-7 ft/hr. Attempted to clear bit for 4 hrs. TOH, bit balled w/ shale. RIH w/ bit #8, drill F/8,486 T/8,579' (128' in 14.5 hrs), 8.8 ft/hr.

ROP-22, MW-9.8, Visc-33, PH-10, Chlor-115,000, WL-4, Survey-1.0 deg @ 8,503'

DWC: \$3,800

CWC: \$545,680

11/3/2015-Day 17

Depth-8,899'

Drill F/8,579 T/8,899' (413' in 23.5 hrs) 17.6 ft/hr.

ROP-9, MW-9.8, Visc-34, PH-10, Chlor-107,500, WL-4, Survey-2.4 deg @ 8,850'

DWC: \$6,800

CWC: \$552,480

11/4/2015-Day 18

Depth-9,087'

Drill F/8,889 T/9,087' (188' in 15.5 hrs), 12.1 ft/hr. Top of Devonain at 9,084' from mud logger sample.

Circulate hole clean, TOH to replace bit. PU & RIH w/ bit #9.

ROP-N/A, MW-9.8, Visc-38, PH-10, Chlor-115,000, WL-2, Survey-2.5 deg @ 9,040'

DWC: \$2,800

CWC: \$555,280

11/5/2015-Day 19

Depth-9,235'

Drill F/9,087 T/9,235' (148' in 19.5 hrs), 7.6 ft/hr.

ROP-8, MW-9.8, Visc-37, PH-10, Chlor-108,000, WL-4, Survey-2.9 deg @ 9,167'

DWC: \$3,800

CWC: \$559,080

11/6/2015-Day 20

Depth-9,302' TD

Drill F/9,235 T/9,302' (67' in 7 hrs), 9.5 ft/hr. Circulate hole clean. Short trip 6,600' to TD. Tag 8' fill, wash down to 9,302'. Mix and pump 60 bbl sweep and spot 50 bbl 51 visc pill. TOH & LD BHA. MIRU Schlumberger WL & RIH w/ Platform Express SGR/CNL/DLL from 9,302-7,800'. POOH.

DWC: \$27,100

CWC: \$586,180

11/7/2015-Day 21

Depth-9,302' TD

RDMO Schlumberger wireline. TIH to lay down drill pipe and collars. Bit plugged at 4,500'. TOH and clean out bit. RIH to 9,299 and wash 3' to TD at 9,302'. POOH laying down drill pipe and collars.

DWC: \$2,750

CWC: \$588,390

11/8/2015-Day 22

Depth-9,302' TD

MIRU casing crew & run 206 jts 5.5" 20# L-80 to 9,302'. FS-9,300', FC-9253', DV tool-7,351'. Circulate hole. MIRU OTEX. Test lines to 5,000 psi and pump Stage 1- 24 bbl mudwash spacer & Tail-350 sx 14.4# 50:50 POZ H w/ 2% gel, ¼#/sx Cello Flakes, 0.3% C-12, 0.2% C-49, 0.2% SMS, 0.3% O-TX, 0.004 gps CF-41L. Drop plug & displace w/ 206 bbl FW, plug did not bump. Bleed back 0.5 bbl, floats held. Drop bomb and open DV at 1424 psi. Circulate 4 hours. Pump Stage 2- 20 bbl FW spacer & Lead- 430 sx 50:50 POZ H w/ 10% gel, 0.1% C-20, 5% salt & ¼#/sx Cello flakes, 0.004 gps CF-41L, Tail-110 sx Class H w/ 0.1% O-TX20, 0.004 gps CF-41L. Drop plug and displace w/ 164 bbl FW. Land plug at 1,830 psi & test up to 3,000 psi. Bled back 2 bbl, floats held. RDMO OTEX. ND BOP and set slips. Make final cut and install tubing head. RDMO OTEX. RD O'Ryan #8.

DWC: \$374,750

CWC: \$963,680