BAM Permian Operating, LLC
University Amanda #4
2128 FWL & 607 FSL
Section 6, Block 30 ULS
Crane County, TX
API: 42-103-36547
Drilling Permit: 815449

6/9/2016
Set 40' 20" Conductor Casing. Drill Rathole/Mousehole. Begin filling reserve w/ FW & BW. Continue rigging up O'Ryan Rig #5.

6/10/2016
Con't rigging up. Will spud tomorrow PM. Carry forward cost for location, caliche, water, etc.

DWC: $207,050
CWC: $207,050

6/11/2016-Day 1
Depth-867'
Con't rigging up. Unload 21 jts. 13-3/8" 54.5# J-55 STC (867.1'). Clean, drift and tally pipe. Mix spud mud and spud in well at 6 PM. Drill 17.5" hole F/ 40' T/ 867' in 11 hrs. Pump sweep and circulate hole. TOH.
ROP-NA, MW-8.4, Visc-30, Survey-0.9 deg @ 706'

DWC: $27,360
CWC: $234,410

6/12/2016-Day 2
Depth-867'
Finish TOH & LD BHA. RIH w/ 13-3/8" STC FS, 13-3/8" 54.50# J-55 STC shoe jt, 13-3/8" STC FC, 19 jts 13-3/8" 54.50# J-55 STC w/ 8 centralizers and land casing at 867'. Circulate hole & rig up OTEX cementing. Pump Lead-350 sx 12.9# 35:65:6 POZ C w/ ¼#/sk Cello Flake, 3% Salt & 0.004 gps CF-41L, Tail-315 sx 14.8# Class C w/ 2% CaCl2 & 0.004 gps CF-41L. Displace w/ 126 bbl FW and bump plug to 1025 psi circulating 185 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: $16,010
CWC: $250,420

6/13/2016-Day 3
Depth-1,511'
Con't NU BOP, PU BHA and RIH. Test BOP's 1000 H/250 L. Repair rig 4.5 hrs. Drill F/ 867' T/ 1,511' in 10.5 hrs, 61.4 ft/hr.
ROP-64, MW-9.8, Visc-29, Survey-0.5 deg @ 1280'

DWC: $3,000
CWC: $253,420

6/14/2016-Day 4
Depth-2,584'
Drill ahead F/ 1,511' T/ 2,584' (1073' in 21 hrs), 51.1 ft/hr. Unload 3,779' 8-5/8" 32# & 24# J-55 casing. Clean, drift and talley pipe.
ROP-62, MW-9.9, Visc-29, Survey-0.9 deg @ 2353'

DWC: $43,225
CWC: $296,645

6/15/2016-Day 5
Depth-3,550'
Drill ahead F/ 2,584' T/ 3,550' (966' in 22 hrs), 43.9 ft/hr.
ROP-51, MW-9.9, Visc-30, Survey-0.4 deg @ 3238'

DWC: $7,500
CWC: $304,145

6/16/2016-Day 6
Depth-3,780'
Drill ahead F/ 3,550' T/ 3,780' (230' in 4.5 hrs), 52 ft/hr. TD intermediate hole at 3,780', 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# J-55 LTC (45.14'), 8-5/8" FC, 39 jts. 8-5/8" 32 # J-55 LTC (1759.84'), 41 jts. 8-5/8" 24# J-55 STC (1750.47'), 5 jts. 8-5/8" 32# J-55 LTC (223.66') & land casing at 3,780'. Circulate hole clean. MIRU OTEX. Test lines to 2,500 psi. Pump 20 bbl FW spacer & Lead-655 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/ 232.5 bbl FW, bump plug to 1350 psi. Bleed back 1.5 bbl, floats held. Circulated 142 sx cement to surface. RDMO OTEX. ND BOP. Set slips, make casing cut and install "B" Section. NU BOP.

DWC: $19,460
CWC: $323,605

6/17/2016-Day 7
Depth-3,902'
Test BOP's 1000H/250L. MU BHA & TIH to 3,699', drill cement and FC to 3,762'. Test casing to 1,500 psi. Drill FS and formation to 3,793'. TOH to PU motor and reamers. TIH & drill F/ 3,793 T/ 3,902' (117' in 4.5 hrs), 26 ft/hr.
ROP-39, MW-9.1, Visc-28, Survey-0.5 deg @ 3785'

DWC: $158,000
CWC: $481,605

6/18/2016-Day 8
Depth-5,032'
TOH to change survey tool. TIH & drill F/ 3,902 T/ 5,032 (1,130' in 20 hrs), 56.5 ft/hr. Lost partial returns at 5,000', pump LCM sweeps, regained full returns.
ROP-95, MW-9.1, Visc-29, Survey-0.2 deg @ 4898'

DWC: $3,500
CWC: $485,105

6/19/2016-Day 9
Depth-6,080'
Drill ahead F/ 5,032' T/ 6,080' (1,048 in 23 hrs), 45.5 ft/hr.
ROP-49, MW-9.1, Visc-29, Survey-1.3 deg @ 5,906'

DWC: $4,500
CWC: $489,605

6/20/2016-Day 10
Depth-6,752'
Drill ahead F/ 6,080' T/ 6,752' (672' in 13.5 hrs), 49.8 ft/hr. ROP dropped below 20 ft/hr, TOH for bit change. Mix and spot 60 bbl LCM pill at 6,650' for minor seepage of +/- 10-20 bbl/hr. MU bit #4 and BHA. Rig repair-replacing rotary table.
ROP-NA, MW-9.3, Visc-29, Survey-0.9 deg @ 6,632'

DWC: $10,500
CWC: $500,105

6/21/2016-Day 11
Depth-7,225'
Con't replacing rotary table. RIH w/ bit #4 and drill ahead F/ 6,752' T/ 7,225' (473' in 14 hrs), 33.8 ft/hr. Start mud up at 6,800'. No fluid losses since bit trip.
ROP-31, MW-9.5, WL-7, Chlor-104,000, Visc-30, Survey 1.1 deg @ 7,076'

DWC: $6,500
CWC: $505,605

6/22/2016-Day 12
Depth-8,004'
Drill ahead F/ 7,225' T/ 8,004' (779' in 21 hrs), 37.1 ft/hr. Unload 226 jts. 5-1/2" 20# L-80 casing, clean, drift and tally. Rig up mudloggers and begin logging at 7,800'. TOH for hole in drill pipe.
ROP-N/A, MW-9.7, WL-6, Chlor-115,000, Visc-35, Survey 0.8 deg @ 7,774'

DWC: $76,860
CWC: $583,465

6/23/2016-Day 13
Depth-8,280'
Con't TOH, replace drill pipe w/ hole. PU bit #5, change out survey tool and TIH. Drill F/ 8,004' T/ 8,280' (276' in 10 hrs), 27.6 ft. hr.
ROP-34, MW-9.8, WL-6, Chlor-107,000, Visc-34, Survey 0.8 deg @ 8,028'

DWC: $3,200
CWC: $586,665

6/24/2016-Day 14
Depth-8,676'
Drill ahead F/ 8,280 T/ 8,541'. Condition and circulate mud, TOH due to low ROP. MU bit #6 & TIH. Drill F/ 8,541 T/ 8,676 (396' in 11.5 hrs), 34.4 ft/hr.
ROP-64, MW-9.8, WL-5, Chlor-104,000, Visc-31, Survey 1.0 deg @ 8,624'

DWC: $4,350
CWC: $591,015

6/25/2016-Day 15
Depth-9,087'
Drill ahead F/ 8,676' T/ 9,087'. ROP dropped below 5 ft/hr, circulate out samples from 9,087', top of Devonian at +/- 9,080' from mud logger sample. TOH to change bit. LD motor, MU bit #7 and TIH.
ROP-NA, MW-9.9, WL-5, Chlor-104,000, Visc-34, Survey 2.1 deg @ 9,006'

DWC: $5,260
CWC: $596,275

6/26/2016-Day 16
Depth-9,095'
Driller depth corrected to 9,058' based on drill string strap. Drill ahead F/ 9,058 T/ 9,062'. ROP 1-2 ft/hr. TOH to PU motor. MU motor and TIH. Drill F/ 9,062 T/ 9,095' (40' in 4 hrs), 10 ft/hr.
ROP-8, MW-9.8, WL-4, Chlor-102,000, Visc-33, Survey 2.1 deg @ 9,006'

DWC: $3,500
CWC: $599,775

6/27/2016-Day 17
Depth-9,404'
Drill ahead F/ 9,095' T/ 9,404' (309' in 20 hrs), 15.5 ft/hr. Top of Devonian correction to +/- 9,230' from mudlogger sample (cherty Mississippian/low ROP gave false top). TOH for bit change.
ROP-NA, MW-9.7, WL-2, Chlor-103,000, Visc-38, Survey 1.2 deg @ 9,290'

DWC: $4,760
CWC: $604,535

6/28/2016-Day 18
Depth-9,445' (TD)
Con't TOH for bit change. MU bit #9 and TIH. Drill F/ 9,404' T/9,445' (41' in 5 hrs), 8.2 ft/hr. TD well at 9,445'. Circulate hole clean. Short trip 8,500' to 9,445'. Pump sweep and spot 134 bbl 50 visc pill. TOH to run logs.
ROP-NA, MW-9.7, WL-3, Chlor-103,000, Visc-42, Survey 0.8 deg @ 9,353'

DWC: $17,500
CWC: $622,035

6/29/2016-Day 19
Depth-9,445' (TD)
Con't TOH. MIRU Schlumberger WL & RIH w/ Platform Express SGR/CNL/DLL from 9,444-7,800'. POOH & RDMO Schlumberger. TIH to lay down drill pipe and collars. Wash 2' fill, circulate bottoms up and spot pill. POOH laying down drill pipe and collars.

DWC: $19,760
CWC: $641,795

6/30/2016-Day 20
Depth-9,445' (TD)
Con't laying down drill pipe and collars. MIRU casing crew & run 228 jts 5.5" 20# L-80 to 9,445'. FS-9,445', FC-9,405', DV tool-7,450'. Circulate hole. MIRU OTEX. Test lines to 4,000 psi and pump Stage 1- 20 bbl mudwash spacer & Tail-400 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/ 201 bbl FW, bump plug to 1,550 psi. Bleed back 1.5 bbl, floats held. Drop bomb and open DV tool at 1,250 psi. Circulate 4 hours. Pump Stage 2- 20 bbl FW spacer & Lead- 400 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/ 165 bbl FW. Land plug at 1,330 psi & test up to 2,856 psi. Bled back 2 bbl, floats held. RDMO OTEX. ND BOP and set slips. Make final cut and install tubing head. Test WH to 3,000 psi. RD O'Ryan #5.

DWC: $210,560
CWC: $852,355