

3/25/15

University DC 1H Devonian Completion
MIGUEL COBOS, MICHEAL WILSON
Baker FRAC / Baker WIRE LINE
DAILY: \$ 292,266.34
ACC: \$ 292,266.34

Toe Prep. (12:22-13:24) SPRAYBERRY FORMATION

Casing Tested @ **6076** psi and chart for 5 minutes (RRCT), Open Toe Tool @ **6557** psi, Injection Rate @ **1** bpm, Pumped **2000** gal 15% Acid and displaced 100 bbls into formation. **750** lbs 100 mesh MAX RATE **52.8** BPM / **5606** PSI / TOTAL **1032** BBLS PUMPMED. ISIP **2400** PSI Total **750** Prop

Perf Stage 1. (14:15-16:40) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ 14031 Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **13995-99/ 13900-03'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 1. (17:00-18:35) SPRABERRY_ FORMATION

RU **BAKER** FRAC. , Break down at **4656** psi @ **11.1** bpm. Pump **1500** gal 15% Acid, Pump **70308** gal 13# Linear, Pump **99918** gal 20# Borate, **65684** lbs of 30/50 sand **174259** lbs of 20/40 sand, Pump **14507** gal Slick water Flush. Max rate= **72.9** bpm, Avg rate= **69.0** bpm, Max psi= **7560** psi, Avg psi= **4980** psi, ISIP= **1850** psi. FG= **0.62** Total load= **195708** gal. Pump down **370** bbl. Cumulative **6061** bbl.

Perf Stage 2. (18:58-20:55) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **13,835** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **13805-08/ 13710-13'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 2. (21:18 -22:42) SPRABERRY_ FORMATION

RU **BAKER** FRAC. , Break down at **6052** psi @ **15** bpm. Pump **1525** gal 15% Acid, Pump **70421** gal 13# Linear, Pump **102690** gal 20# Borate, **65356** lbs of 30/50 sand **174815** lbs of 20/40 sand, Pump **13671** gal Slick water Flush. Max rate= **71.8** bpm, Avg rate= **70.5** bpm, Max psi= **7456** psi, Avg psi= **5716** psi, ISIP= **2094** psi. FG= **0.65** Total load= **198815** gal. Pump down **248** bbl. Cumulative **11042** bbl.

NPT (22:42-24:00) OXY-WEATHER-WIND SPEEDS TO HIGH FOR OPERATION

3/26/15

University DC 1H Devonian Completion
MIGUEL COBOS, MICHEAL WILSON
Baker FRAC / Baker WIRE LINE
DAILY: \$ 292,018.70
ACC: \$ 558,285.04

NPT (24:00-04:15) OXY-WEATHER-WIND SPEEDS TO HIGH FOR OPERATION

Perf Stage 3. (04:15-6:40) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **13,645** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **13615-18/ 13520-23'** Total shots FIRED= **40** . Net feet = **7**.

NPT-Baker-(6:40-24:00)-change out over pressurized iron and rig up new iron.

3/27/15

University DC 1H Devonian Completion
MIGUEL COBOS, MICHEAL WILSON
Baker FRAC / Baker WIRE LINE
DAILY: \$ 269,327.77
ACC: \$ 827,612.81

NPT-Baker-(24:00-7:00)-change out over pressurized iron and rig up new iron.

FRAC Stage 3A. (07:18-8:29) SPRABERRY_ FORMATION

RU **BAKER** FRAC. , Break down at **5877** psi @ **10.5** bpm. Pump **1500** gal 15% Acid, Pump **49403** gal 13# Linear, Pump **75470** gal 20# Borate, **65612** lbs of 30/50 sand **8606** lbs of 20/40 sand, Pump **14923** gal Slick water Flush. Max rate= **71** bpm, Avg rate= **68.3** bpm, Max psi= **8244** psi, Avg psi= **5833** psi, ISIP= **2024** psi. FG= **0.64** Total load= **137092** gal. Pump down **204** bbl. Cumulative **14510** bbl.

NPT-FRAC-(8:30-15:40)- change out blender and do flow test.

FRAC Stage 3B. (15:48-16:35) SPRABERRY_ FORMATION

RU **BAKER** FRAC.. Pump **1000** gal 15% Acid, Pump **29998** gal 13# Linear, Pump **63241** gal 20# Borate, **22016** lbs of 30/50 sand **127967** lbs of 20/40 sand, Pump **13847** gal Slick water Flush. Max rate= **69** bpm, Avg rate= **67.8** bpm, Max psi= **5759** psi, Avg psi= **4796** psi, ISIP= **2186** psi. FG= **0.66** Total load= **112518** gal. Cumulative **17188.7** bbl.

Perf Stage 4. (17:00-18:06) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **13,455** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **13425-29/ 13330-33'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 4. (19:33-20:58) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **4013** psi @ **14.7** bpm.. Pump **1512** gal 15% Acid, Pump, **9883** gal Slickwater, Pump **60879** gal 13# Linear, Pump **99792** gal 20# Borate, **64134** lbs of 30/50 sand **172501** lbs of 20/40 sand, Pump **13373** gal Slick water Flush. Max rate= **75.5** bpm, Avg rate= **68.7** bpm, Max psi= **8360** psi, Avg psi= **5223** psi, ISIP= **2338** psi. FG= **0.67** Total load= **185438** gal. Cumulative **21603** bbl.

Perf Stage 5. (21:15-23:21) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **13,265** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **13235-38/ 13140-43'** Total shots FIRED= **40** . Net feet = **7**.

3/28/15

University DC 1H Devonian Completion
MIGUEL COBOS, MICHEAL WILSON
Baker FRAC / Baker WIRE LINE
DAILY: \$ 278,517.42
ACC: \$ 1,106,130.23

NPT(23:21-24:33)OXY-MAINTINENCE-GREASE AND TORQUE FRAC STACK

FRAC Stage 5. (00:32-02:19) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **7857** psi @ **15.1** bpm. Pump **1516** gal 15% Acid, Pump **1541** gal Slickwater, Pump **55222** gal 13# Linear, Pump **77662** gal 13# Borate, Pump **99498** gal 20# Borate, **65141**

lbs of 30/50 sand **173995** lbs of 20/40 sand, Pump **13495** gal Slick water Flush. Max rate= **71.5** bpm, Avg rate= **68.6** bpm, Max psi= **8429** psi, Avg psi= **6871** psi, ISIP= **2257** psi. FG= **.67** Total load= **248934** gal. Pump Down **208** bbl Cumulative **27512** bbl.

Perf Stage 6. (02:35-04:17) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **13,075** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **13045-48/ 12950-53'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 6. (04:39-5:53) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **4306** psi @ **14.4** bpm. Pump **1516** gal 15% Acid, Pump **2171** gal Slickwater, Pump **54982** gal 13# Linear, Pump **100170** gal 20# Borate, **65165** lbs of 30/50 sand **173947** lbs of 20/40 sand, Pump **12978** gal Slick water Flush. Max rate= **71.7** bpm, Avg rate= **70.7** bpm, Max psi= **7359** psi, Avg psi= **5940** psi, ISIP= **2277** psi. FG= **0.67** Total load= **172817** gal. Pump Down **203** bbl Cumulative **31829** bbl.

Perf Stage 7. (06:14-7:51) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **12885** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **12855-59/ 12760-63'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 7. (8:15-9:43) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **2148** psi @ **9** bpm. Pump **1500** gal 15% Acid, Pump **7959** gal Slickwater, Pump **63347** gal 13# Linear, Pump **100435** gal 20# Borate, **65412** lbs of 30/50 sand **174835** lbs of 20/40 sand, Pump **13427** gal Slick water Flush. Max rate= **69.2** bpm, Avg rate= **68.7** bpm, Max psi= **7362** psi, Avg psi= **5704** psi, ISIP= **2338** psi. FG= **0.67** Total load= **188740** gal. Pump Down **175** bbl Cumulative **36498** bbl.

Perf Stage 8. (10:10-11:37) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **12695** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **12665-69/ 12570-03'** Total shots FIRED= **40** . Net feet = **7**.

NPT (11:30-12:10) OXY-MAINTINENCE-JAGUAR – TORQUE FRAC STACK

FRAC Stage 8. (12:19-13:42) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **5577** psi @ **14.5** bpm. Pump **1500** gal 15% Acid, Pump **7972** gal Slickwater, Pump **39362** gal 13# Linear, Pump **24991** gal 13# XLink, Pump **96958** gal 20# Borate, **63800** lbs of 30/50 sand **174720** lbs of 20/40 sand, Pump **13154** gal Slick water Flush. Max rate= **70.6** bpm, Avg rate= **68.6** bpm, Max psi= **7954** psi, Avg psi= **6163** psi, ISIP= **2308** psi. FG= **0.67** Total load= **187469** gal. Pump Down **171** bbl Cumulative **41133** bbl.

Perf Stage 9. (14:10-15:28) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **12505** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **12475-79/ 12380-83'** Total shots FIRED= **40** . Net feet = **7**.

NPT (15:35-17:00)-BAKER FRAC-MAINTENENCE-PUMP MAINTENENCE

FRAC Stage 9. (17:19-19:07) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **6996** psi @ **14** bpm. Pump **1500** gal 15% Acid, Pump **9442** gal Slickwater, Pump **73983** gal 13# Linear, Pump **44516** gal 13# Borate Pump **99582** gal 20# Borate, **65097** lbs of 30/50 sand **174340** lbs of 20/40 sand, Pump **12600** gal Slick water Flush. Max rate= **72** bpm, Avg rate= **68.9** bpm, Max psi= **8391** psi, Avg psi= **5542** psi, ISIP= **2491** psi. FG= **0.69** Total load= **246624** gal. Pump Down **162** bbl Cumulative **47167** bbl.

Perf Stage 10. (19:28-20:54) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **12315** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **12285-88/ 12190-93'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 10. (21:14-22:27) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **4019** psi @ **16.5** bpm. Pump **1491** gal 15% Acid, Pump **3381** gal Slickwater, Pump **31030** gal 13# Linear, Pump **35028** gal 13# Borate, Pump **99582** gal 20# Borate, **65043** lbs of 30/50 sand **174473** lbs of 20/40 sand, Pump **12260** gal Slick water Flush. Max rate= **73.2** bpm, Avg rate= **72.4** bpm, Max psi= **8228** psi, Avg psi= **5629** psi, ISIP= **2542** psi. FG= **.69** Total load= **197412** gal. Pump Down **174** bbl Cumulative **51725** bbl.

Perf Stage 11. (22:45-23:58) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **12125** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **12095-98/ 12000-03'** Total shots FIRED= **40** . Net feet = **7**.

3/29/15

University DC 1H Devonian Completion
MIGUEL COBOS, MICHEAL WILSON
Baker FRAC / Baker WIRE LINE
DAILY: \$ 312,287.01
ACC: \$ 1,418,417.24

FRAC Stage 11. (00:26-01:40) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **5709** psi @ **12.4** bpm. Pump **1516** gal 15% Acid, Pump **3213** gal Slickwater, Pump **56049** gal 13# Linear, Pump **99498** gal 20# Borate, **65091** lbs of 30/50 sand **173953** lbs of 20/40 sand, Pump **12180** gal Slick water Flush. Max rate= **70.1** bpm, Avg rate= **69.3** bpm, Max psi= **5634** psi, Avg psi= **4943** psi, ISIP= **2654** psi. FG= **.71** Total load= **172456** gal. Pump Down **153** bbl Cumulative **55984** bbl.

Perf Stage 12. (02:00-03:26) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **11935** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **11905-08/ 11810-13'** Total shots FIRED= **40** . Net feet = **7**.

NPT (03:26-04:18) OXY-MAINTINENCE– GREASE AND TORQUE FRAC STACK

NPT (04:18-05:01) BAKER FRAC-PUMP–CHANGE OUT LEAKING IRON ON PUMP

FRAC Stage 12. (05:18-07:07) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **6586** psi @ **13.8** bpm. Pump **1516** gal 15% Acid, Pump **1831** gal Slickwater, Pump **32676** gal 13# Linear, Pump **108569** gal 13# XLink, Pump **92271** gal 20# Borate, **65338** lbs of 30/50 sand **174801** lbs of 20/40 sand, Pump **12365** gal Slick water Flush. Max rate= **73** bpm, Avg

rate= **64** bpm, Max psi= **8430** psi, Avg psi= **6229** psi, ISIP= **3040** psi. FG= **0.74** Total load= **250607** gal.
Pump Down **147** bbl Cumulative **62097** bbl.

Perf Stage 13. (07:26-8:56) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **11748** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD.
Perforate @ **11715-19/ 11629-23'** Total shots FIRED= **40** . Net feet = **7**.

NPT-FRAC-(9:00-9:50)-had leak on high pressure iron that had to be fixed.

FRAC Stage 13. (09:53-11:19) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **6395** psi @ **13** bpm. Pump **1500** gal 15% Acid, Pump **9416** gal Slickwater, Pump **63933** gal 13# Linear, Pump **99115** gal 20# Borate, **65147** lbs of 30/50 sand **173960** lbs of 20/40 sand, Pump **12167** gal Slick water Flush. Max rate= **68.9** bpm, Avg rate= **68.1** bpm, Max psi= **8040** psi, Avg psi= **6315** psi, ISIP= **3000** psi. FG= **0.74** Total load= **187243** gal. Pump Down **174** bbl Cumulative **66729** bbl.

Perf Stage 14. (11:36-13:15) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **11560** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD.
Perforate @ **11525-29/ 11430-33'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 14. (13:50-15:17) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **8164** psi @ **14** bpm. Pump **1500** gal 15% Acid, Pump **8081** gal Slickwater, Pump **39281** gal 13# Linear, Pump **98816** gal 20# Borate, Pump **25052** gal 13# XLink, **65521** lbs of 30/50 sand **174159** lbs of 20/40 sand, Pump **12184** gal Slick water Flush. Max rate= **70** bpm, Avg rate= **66.7** bpm, Max psi= **8298** psi, Avg psi= **6423** psi, ISIP= **2786** psi. FG= **0.72** Total load= **186609** gal. Pump Down **117** bbl Cumulative **71289** bbl.

Perf Stage 15. (15:31-17:28) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **11360** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD.
Perforate @ **11335-38/ 11240-43'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 15. (17:45-19:16) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **5573** psi @ **24** bpm. Pump **1516** gal 15% Acid, Pump **1970** gal Slickwater, Pump **33940** gal 13# Linear, Pump **15078** gal 13# Borate, Pump **100464** gal 20# Borate, **65120** lbs of 30/50 sand **173692** lbs of 20/40 sand, Pump **11760** gal Slick water Flush. Max rate= **71.5** bpm, Avg rate= **69.6** bpm, Max psi= **8287** psi, Avg psi= **5702** psi, ISIP= **2664** psi. FG= **0.71** Total load= **211243** gal. Pump Down **118** bbl Cumulative **76436** bbl.

Perf Stage 16. (19:31-20:41) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **11180** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD.
Perforate @ **11145-48/ 11050-53'** Total shots FIRED= **40** . Net feet = **7**.

NPT (20:41-21:21) OXY-MAINTINENCE– GREASE AND TORQUE FRAC STACK

FRAC Stage 16. (21:47-23:09) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **5284** psi @ **15.8** bpm. Pump **1516** gal 15% Acid, Pump **2696** gal Slickwater, Pump **72433** gal 13# Linear, Pump **11802** gal 13# Borate, Pump **100002** gal 20# Borate, **65197** lbs of 30/50 sand **174242** lbs of 20/40 sand, Pump **11168** gal Slick water Flush. Max rate= **72.9**

bpm, Avg rate= **70.7** bpm, Max psi= **7350** psi, Avg psi= **6133** psi, ISIP= **3050** psi. FG= **0.75** Total load= **199618** gal. Pump Down **91** bbl Cumulative **81279** bbl.

Perf Stage 17. (23:25-24:35) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **10989** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **10955-58/ 10860-63'** Total shots FIRED= **40** . Net feet = **7**.

3/30/15

University DC 1H Devonian Completion

MIGUEL COBOS, MICHEAL WILSON

Baker FRAC / Baker WIRE LINE

DAILY: \$ 319,115.72

ACC: \$ 1,737,532.96

FRAC Stage 17. (00:58-02:09) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **6400** psi @ **14.0** bpm. Pump **1516** gal 15% Acid, Pump **2545** gal Slickwater, Pump **56045** gal 13# Linear, Pump **99498** gal 20# Borate, **65175** lbs of 30/50 sand **173862** lbs of 20/40 sand, Pump **11033** gal Slick water Flush. Max rate= **71.5** bpm, Avg rate= **70.4** bpm, Max psi= **6301** psi, Avg psi= **5381** psi, ISIP= **3477** psi. FG= **.79** Total load= **170638** gal. Pump Down **87** bbl Cumulative **85422** bbl.

Perf Stage 18. (02:23-03:34) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **10800** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **10765-68/ 10670-73'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 18A. (03:52-05:11) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at **4291** psi @ **16.8** bpm. Pump **3541** gal 15% Acid, Pump **2171** gal Slickwater, Pump **95000** gal 13# Linear, Pump **12600** gal 13# Borate, Pump **0** gal 20# Borate, **4393** lbs of 30/50 sand **0** lbs of 20/40 sand, Pump **10991** gal Slick water Flush. Max rate= **69.7** bpm, Avg rate= **45.2** bpm, Max psi= **8523** psi, Avg psi= **8051** psi, ISIP= **2898** psi. FG= **.73** Total load= **144186** gal. Pump Down **74** bbl Cumulative **88929** bbl.

Perf Stage 18B. (02:23-03:34) SPRABERRY_ FORMATION

Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **10655-59/ 10651-54'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 18B. (07:44-09:06) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Pump **1500** gal 15% Acid, Pump **8051** gal Slickwater, Pump **50488** gal 13# Linear, Pump **94055** gal 20# Borate, Pump **25003** gal 13# XLink, **65297** lbs of 30/50 sand **173550** lbs of 20/40 sand, Pump **11332** gal Slick water Flush. Max rate= **71** bpm, Avg rate= **66.7** bpm, Max psi= **8260** psi, Avg psi= **6241** psi, ISIP= **2491** psi. FG= **0.69** Total load= **191798** gal. Pump Down **149** bbl Cumulative **93645** bbl.

Perf Stage 19. (9:24-10:46) SPRABERRY_ FORMATION

Baker flow throw bridge plug 5 ½ @ **10611** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **10575-79/ 10480-83'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 19. (11:12-13:26) SPRABERRY_ FORMATION

RU **BAKER** FRAC. Break down at psi @ **14** bpm. Pump **2500** gal 15% Acid, Pump **7795** gal Slickwater, Pump **100297** gal 13# Linear, Pump **102058** gal 20# Borate, Pump **19944** gal 13# XLink, **65318** lbs of

30/50 sand **173846** lbs of 20/40 sand, Pump **11164** gal Slick water Flush. Max rate= **68.5** bpm, Avg rate= **53.7** bpm, Max psi= **8462** psi, Avg psi= **7162** psi, ISIP= **2511** psi. FG= **0.69** Total load= **257438**gal. Pump Down **52** bbl Cumulative **99826** bbl.

Perf Stage 20. (13:40-14:45) SPRABERRY_FORMATION

Baker flow throw bridge plug 5 ½ @ **10420** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **10385-89/ 10290'** Total shots FIRED= **40** . Net feet = **7**.

NPT-(15:00-16:30) – service well stack with jaguar and fmc

FRAC Stage 20. (16:35-18:46) SPRABERRY_FORMATION

RU **BAKER** FRAC. Break down at **6783** psi @ **13.5** bpm. Pump **2957** gal 15% Acid, Pump **7963** gal Slickwater, Pump **171717** gal 13# Linear, Pump **89334** gal 20# Borate, **65231** lbs of 30/50 sand **174545** lbs of 20/40 sand, Pump **10529** gal Slick water Flush. Max rate= **72** bpm, Avg rate= **65.8** bpm, Max psi= **8350** psi, Avg psi= **6445** psi, ISIP= **2583** psi. FG= **.69** Total load= **288960** gal. Pump Down **51** bbl Cumulative **106757** bbl.

Perf Stage 21. (19:08-20:16) SPRABERRY_FORMATION

Baker flow throw bridge plug 5 ½ @ **10220** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **10195-98/ 10100-03'** Total shots FIRED= **40** . Net feet = **7**.

FRAC Stage 21. (20:38-21:53) SPRABERRY_FORMATION

RU **BAKER** FRAC. Break down at **6115** psi @ **15.2** bpm. Pump **1520** gal 15% Acid, Pump **1428** gal Slickwater, Pump **15767** gal 13# Linear, Pump **57599** gal 13# borate Pump **99078** gal 20# Borate, **64850** lbs of 30/50 sand **175200** lbs of 20/40 sand, Pump **10353** gal Slick water Flush. Max rate= **71.0** bpm, Avg rate= **69.7** bpm, Max psi= **8195** psi, Avg psi= **6859** psi, ISIP= **2796** psi. FG= **.72** Total load= **185745** gal. Pump Down **52** bbl Cumulative **111231** bbl.

Perf Stage 22. (22:08-23:21) SPRABERRY_FORMATION

Baker flow throw bridge plug 5 ½ @ **10040** Perf stage w/ 3 1/8" 210 Max Force 23.0 charge .042EHD. Perforate @ **10005-08/ 9910-13'** Total shots FIRED= **40** . Net feet = **7**.

3/31/15

University DC 1H Devonian Completion

MIGUEL COBOS, MICHEAL WILSON

Baker FRAC / Baker WIRE LINE

DAILY: \$ 758,907.40

ACC: \$ 2,496,440.36

FRAC Stage 22. (23:53-01:11) SPRABERRY_FORMATION

RU **BAKER** FRAC. Break down at **5080** psi @ **11.6** bpm. Pump **5607** gal 15% Acid, Pump **0** gal Slickwater, Pump **0** gal 13# linear, Pump **62790** gal 13# Borate, Pump **99036** gal 20# Borate, **63750** lbs of 30/50 sand **175812** lbs of 20/40 sand, Pump **9925** gal Slick water Flush. Max rate= **70.1** bpm, Avg rate= **69.1** bpm, Max psi= **6356** psi, Avg psi= **5908** psi, ISIP= **2735** psi. FG= **.71** Total load= **177358** gal. Pump Down **41** bbl Cumulative **115768** bbl.

STIMULATION COMPLETE

4/01/2015
UNIVERSITY DC 1H
WOC: JERRY PATTON/ CHUCK MOORE
C&J ENERGY CTU #31 2 3/8 CT/ BHI TOOLS
DAILY COST: \$ 64,508.00
ACCUM COST: \$ 64,508.00
NPT: LSE CRANE 11:00AM-7:00PM HOURS 8
ACTIVITY:
BHA:
COIL CONNECTOR .288
DUAL BACK PRESURE VALVE .288
JARS .288
DISCONNECT .288
DUAL CIRC SUB .288
AV SUB .288
X-TREME MOTOR .288
X-OVER .313
VEREL BIT .463
TOTAL LENGTH = 32.93

ALL VENDORS TRAVEL TO LOCATION; HOLD SAFETY MEETING; SPOT EQUIPMENT AND START RU; FUNCTION TEST BOP'S GOOD; START PICKING UP INJECTOR, LUBRICATORS AND FILL REEL; LSE CRANE DISCOVERS HE CAN'T MAKE THE PICK COMPLETELY SO HAVING TO MOVE CRANE AROUND WHILE MOVING CRANE AROUND HAD A INCIDENT SO WAITING ON ANOTHER CRANE TO ARRIVE. OTHER CRANE ON LOCATION. SPOT CRANE AND START RU AGAIN
18:00 AOL CRANE WAS BEING SPOTTED
18:30 HELD SAFETY MEETING JSA
18:45 BEGAN RIG UP
19:40 INSTALLING BHA
20:50 NIPPLE UP TEST IRON 4,500 TO PLUG CATCHER 7,500 TO MANAFOLD 21
21:20 RIH

4/02/2015
UNIVERSITY DC 1H
WOC: JERRY PATTON/ CHUCK MOORE
C&J ENERGY CTU #31 2 3/8 CT/ BHI TOOLS
DAILY COST: \$ 108,703.00
ACCUM COST: \$ 150,274.00
ACTIVITY:

01:08 PLUG#1 DEPTH=10,027 CP 3,000/WH 1,300/4 IN/4.5 OUT/DT=25 MIN/10 BBL SWEEP
HAVING PUMP ISSUES 4 BBL MAX NPT 1 HR REPLACEMENT PUMP IN RT
01:58 PLUG#2 DEPTH=10,205 CP 3,000/WH 1,200/4 IN/4.5 OUT/DT=62 MIN/10 BBL SWEEP
03:15 PLUG#3 DEPTH=10,405 CP 3,300/WH 900/4 IN/4.5 OUT/DT=19 MIN/10 BBL SWEEP
04:00 PLUG#4 DEPTH=10,597 CP 4,300/WH 1,600/5 IN/5.5 OUT/DT=20 MIN/10 BBL SWEEP

04:50 PLUG#5 DEPTH=10,785 CP 4,000/WH 1,090/5 IN/5.5 OUT/DT=27 MIN/10 BBL SWEEP
05:20 PLUG#6 DEPTH-10,989' NOT THERE SEND 10BBL SWEEP
05:52 PLUG#7 DEPTH-11,226 CP4300/WH1100 5IN/5.5OUT DT 20 MIN 10 BBL SWEEP
0624 PLUG#8 DEPTH-11,334 CP43005BPM/WH11505.5 OUT DT 10 MIN 10 BBL SWEEP
07:00 PLUG#9 DEPTH-11,545' CP4300-5BPM/WH1123-5.5 DT 10MIN 10 BBL SWEEP
07:22 PLUG#10 DEPTH-11,734 CP4300-5BPM/WH897-5.5 DT 10MIN 10 BBL SWEEP
07:35 PLUG#11-DEPTH-11,935" NOT THERE 10BBL SWEEP
08:00 PLUG#12-DEPTH-12,125' NOT THERE 10 BBL SWEEP
08:35 DIDN'T SEE PLUG #13 SO SENDING A 20BBL GEL SWEEP AND PUH 1000' GETTING HEAVY SAND BACK IN RETURNS.
09:25 RIH TO CONTINUE DRILLING PLUGS
10:22 PLUG#14-DEPTH 12,558' CP4400 5BPM/WH879 5.5BPM DT-10 MIN 10BBL SWEEP
10:45 PLUG#15-DEPTH 12,650' CP4367 5BPM/WH900 5.5BPM DT-45 MIN 10 BBL SWEEP
11:45 PLUG#16 DEPTH 12,885' CP4400 5BPM/WH900 5.5BPM WAS NOT THERE 10 BBL SWEEP
12:10 PLUG#17 DEPTH 13,070' CP4400 5BPM/WH900 5.5BPM DT-17 MIN 10 BBL SWEEP
13:05PLUG#18 DEPTH 13,264' CP4390 5BPM/WH700 5.5BPM MAKE A FULL SHORT TRIP TO CLEAN WELL BORE AND HEEL
16:30 RIH TO CONTINUE DRILLING PLUGS
17:00 PLUG#18 DEPTH 13,262 CP4400 5BPM/WH900 5.5 DT-5 MIN 10BBL SWEEP
17:15 PLUG 19 DEPTH 13,455' CP4000 5BPM/WH850 5.5 PLUG NOT THERE 10 BBL SWEEP
17:30 PLUG#20 DEPTH 13,645' CP4300 5BPM/WH1100 5.5PLUG NOT THERE 10 BBL SWEEP
17:40 PLUG#21 DEPTH 13,887' CP4300 5BPM/WH 1100 5.5 DT-10 MIN 10 BBL SWEEP
18:00 PBDT 14,015' SEND A 10/20/10 GEL SWEEP LET CLEAR COIL AND POOH TO RDMO
22:36 BUMP UP NIPPLE DOWN RDMO
ISIP 1,000 PSI
JOB COMPLETE

4/13/15

University DC 1H

Nabors 688

Jim Birkenfeld

Daily cost 9,600

Held tailgate safety meeting. Road pulling unit from south Curtis 3559 DSH to location. Spot pulling unit. Well flowing at 250 psi. NDP rig up.

4/14/15

UNIVERSITY DC 1H

NABORS 688

WOC: JOSH TAYLOR

DAILY COST: \$74710

CUM. COST: \$84310

Start time 7 am Held safety meeting and reviewed JSA. Open well. FCP 150 psi flowing to reserve pit. RU reverse unit. Pumped 200bbls brine down annulus to insure well kill. Function test 5K hydraulic BOP. ND Guardian FV / NU BOP. MIRU WSU and all support equipment. RU rig floor and tbgs tools. Brought in and unloaded 8850' of 2 7/8" L80 prod tbgs on racks. Tallied and removed thread protectors. PU and RIH w/100 jt kill string. Secured well. RU Sweco flowback and opened annulus to pit overnight. SD. NDP: PU prod tbgs.

4/15/15

UNIVERSITY DC 1H

NABORS 688

WOC: JOSH TAYLOR

DAILY COST: \$12030

CUM. COST: \$96340

Start time 7am. Held safety meeting and reviewed JSA. Open well. TP 0 psi CP 0 psi. Well was open to reserve pit overnight. MU and RIH w/166- jts 2 7/8" L80 tbg. POOH w/ 168 – jts 2 7/8" L80 tbg standing in derrick. Prep for ESP run tomorrow. Left annulus open to reserve pit. SD. NDP: RIH w/ESP.

4/16/15

UNIVERSITY DC-1H

Nabors 688

Jim Birkenfeld

Daily cost 142,510

Accumulated cost 238,850

Held tailgate safety meeting. Open well casing 0 psi tubing 0 psi. Pump 50 BBLS brine down tubing trickle brine down casing ½ BBL per minute. Pull 100 joints 2 7/8 tubing. Assemble ESP. run ESP On 268 joints 2 7/8 L80 tubing. ESP intake 8,888 bottom of pump 8,935. Install hanger. Land ESP. Nipple down hydraulic BOP. NDP rig down.

4/17/15

University DC-1H

Nabors 688

Jim Birkenfeld

Daily cost 9,220

Accumulated cost 246,070

Held tailgate safety meeting. Load hydraulic BOP on trailer. Rig down pulling unit clean location. Move equipment to edge of location. NDP move rig.