

# ABRAXAS PETROLEUM CORPORATION

## Daily Drilling Report

BGT # 20190010 AREA WOLFCAMP WELL WOODBERRY 3 #101H (3rd BS-L)

PROPOSAL DRILL & COMPLETE A HORIZONTAL 3RD BONE SPRINGS WITH A 5000' LATERAL.

AFE NUMBER 190107 START DATE : 1/12/2019 MIRU DATE : 2/12/2019 SPUD DATE : 2/17/2019

GROSS AFE : \$7,895 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 04/13/2019

G-DC : \$62,557 G-CC : \$3,073,563 DR TD : 13,095 PBTD : 1,055

ONE LINER: Rot & sld 12040'-13095'. New target 10840' TVD @ 3000'VS.

### DAILY ACTIVITY:

Slide drilled 12,040' - 12,048' (8' @ 16.0 fph), Rotate drilled 12,048' - 12,114' (66' @ 44.0 fph).  
 Slide drilled 12,114' - 12,121' (7' @ 14.0 fph), Rotate drilled 12,121' - 12,194' (73' @ 48.6 fph).  
 Slide drilled 12,194' - 12,202' (8' @ 16.0 fph), Rotate drilled 12,202' - 12,345' (143' @ 57.2 fph).  
 Slide drilled 12,345' - 12,365' (20' @ 20.0 fph), Rotate drilled 12,365' - 12,405' (40' @ 40.0 fph).  
 Slide drilled 12,405' - 12,421' (16' @ 16.0 fph), Rotate drilled 12,421' - 12,571' (150' @ 37.5 fph).  
 Slide drilled 12,571' - 12,583' (12' @ 24.0 fph), Rotate drilled 12,583' - 12,940' (357' @ 64.9 fph).  
 Target Change: Old Target: 10,825' TVD @ 3000' VS. New Target: 10,840' TVD @ 3000' VS.  
 Slide drilled 12,940' - 12,960' (20' @ 13.3 fph), Rotate drilled 12,960' - 13,060' (100' @ 66.6 fph).  
 Serviced rig and topdrive.  
 Rotate drilled 13,060' - 13,095 (35' @ 70.0 fph).

DTI pipe inspectors on location @ 0715 hrs. Left @ 2100 hrs.

♦Note: (----No----) Accidents / Incidents reported ☐

♦Rig Diesel: ( 8934 ) ♦Used: ( 1819 ) gal ♦Total Used: ( 48,117 ) gal ♦Rec: ( 0 ) gal. ☐

♦Mud Diesel: ( 6183 ) gal ♦Used: ( 3269 ) gal ♦Total Used: ( 9017 ) gal ♦Rec: ( 0 ) gal.

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AFE NUMBER 190107 START DATE : 1/12/2019 MIRU DATE : 2/12/2019 SPUD DATE : 2/17/2019

GROSS AFE : \$7,895 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 04/14/2019

G-DC : \$62,782 G-CC : \$3,073,563 DR TD : 13,846 PBTD : 751

ONE LINER: Rot & sld 13095'-13846'. New target 10850' TVD @ 3000'VS. Circ. POOH 13846'-5944'.

### DAILY ACTIVITY:

Rotate drilled 13,095' - 13,127' (32' @ 64.0 fph), Slide drilled 13,127' - 13,146' (19' @ 19.0 fph).  
 Rotate drilled 13,146' - 13,221' (75' @ 50.0 fph), Slide drilled 13,221' - 13,239' (18' @ 12.0 fph).  
 Rotate drilled 13,239' - 13,316' (77' @ 77.0 fph), Slide drilled 13,316' - 13,336' (20' @ 13.3 fph).  
 Rotate drilled 13,336' - 13,504' (168' @ 48.0 fph), Slide drilled 13,504' - 13,511' (7' @ 14.0 fph).  
 Rotate drilled 13,511' - 13,608' (97' @ 48.5 fph), Slide drilled 13,608' - 13,615' (7' @ 7.0 fph).  
 Target Change: Old Target: 10,840' TVD @ 3000' VS. New Target: 10,850' TVD @ 3000' VS.  
 Rotate drilled 13,615' - 13,702' (87' @ 58 fph), Slide drilled 13,702' - 13,712' (10' @ 10.0 fph).  
 Rotate drilled 13,712' - 13,846' (134' @ 53.6 fph). Reduced ROP.  
 Circulated high vis sweep to surface. Flow check, well static. Pump slug.  
 Pulled out of the hole 13,846' - 7330'. No drag observed and hole took proper fill.  
 Pulled rotating element and installed trip nipple.  
 Pulled out of the hole 7330' - 5944'. No drag observed and hole took proper fill.

DTI pipe inspectors on location @ 0715 hrs. Left @ 10:30 AM due to severe rain.

♦Note: (----No----) Accidents / Incidents reported ☐  
 ♦Rig Diesel: ( 7058 ) ♦Used: ( 1876 ) gal ♦Total Used: ( 49,993 ) gal ♦Rec: ( 0 ) gal. ☐  
 ♦Mud Diesel: ( 3039 ) gal ♦Used: ( 3144 ) gal ♦Total Used: ( 12,161 ) gal ♦Rec: ( 0 ) gal.

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AFE NUMBER 190107 START DATE : 1/12/2019 MIRU DATE : 2/12/2019 SPUD DATE : 2/17/2019

GROSS AFE : \$7,895 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 04/15/2019

G-DC : \$66,014 G-CC : \$3,073,563 DR TD : 14,340 PBTD : 494

ONE LINER: POOH 5944'-150'. PU new bit. TIH 150'-13846'. Rot & sld 13846'-14340'.

### DAILY ACTIVITY:

Pulled out of the hole 5944' - 150'. No drag observed and hole took proper fill.  
 Racked back Monel's. Drained motor and broke off bit. Bit had numerous chipped cutters.  
 Picked up new Bit and Muleshoe sleeve. Installed. Scribed motor. Tested motor and MWD. Made up bit.  
 Halliburton GT64DKHE bit #13. DTI Reamer looked Green. No noticeable wear.  
 Tripped in hole 150' - 11,056'.  
 Pulled trip nipple and installed rotating element.  
 Slipped and cut 120' drill line.  
 Serviced rig and topdrive.  
 Tripped in the hole 11,056' - 13,846'.  
 Rotate drilled 13,846' - 13,881' (35' @ 35.0 fph).  
 Circulated 1X bottoms up to clear excessive gas from wellbore. Mud was cut from 11.4 ppg to 11.0 ppg.  
 Max Gas: 9333 units. Decision was made to raise mud weight to 11.6 ppg.  
 Slide drilled 13,881' - 13,893' (12' @ 12.0 fph), Rotate drilled 13,893' - 14,164' (271' @ 67.75 fph).  
 Slide drilled 14,164' - 14,182' (18' @ 18.0 fph), Rotate drilled 14,182' - 14,268' (86' @ 86.0 fph).  
 Slide drilled 14,268' - 14,278' (10' @ 20.0 fph), Rotate drilled 14,278' - 14,340' (62' @ 62.0 fph).  
  
 DTI pipe inspectors on location @ 0800 hrs. Left @ 2000 hrs. Job Complete.  
  
 ♦Note: (---No---) Accidents / Incidents reported ☐  
 ♦Rig Diesel: ( 5878 ) •Used: ( 1180 ) gal •Total Used: ( 51,173 ) gal •Rec: ( 0 ) gal. ☐  
 ♦Mud Diesel: ( 9572 ) gal •Used: ( 369 ) gal •Total Used: ( 12,530 ) gal •Rec: ( 6902 ) gal.

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AFE NUMBER 190107 START DATE : 1/12/2019 MIRU DATE : 2/12/2019 SPUD DATE : 2/17/2019

GROSS AFE : \$7,895 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 04/16/2019

G-DC : \$85,724 G-CC : \$3,159,287 DR TD : 15,016 PBTD : 676

ONE LINER: Rot & sld 14340'-15016'. Chg target to 10890' TVD @ 4000' VS. Circ. POOH 15016'-1007'.

### DAILY ACTIVITY:

Rotate drilled 14,340' - 14,541' (201' @ 67.0 fph), Slide drilled 14,541' - 14,551' (10' @ 10.0 fph).  
Target Change: Old Target: 10,870' TVD @ 4000' VS. New Target: 10,890' TVD @ 4000' VS. 7am 4/15/19  
Rotate drilled 14,551' - 14,635' (84' @ 56.0 fph), Slide drilled 14,635' - 14,647' (12' @ 24.0 fph).  
Rotate drilled 14,647' - 14,918' (271' @ 49.2 fph).  
Serviced rig and topdrive.  
Slide drilled 14,918' - 14,938' (20' @ 8.0 fph).  
Rotate drilled 14,938' - 15,016' (78' @ 31.2 fph). ROP and Differential fell off drastically.  
Circulated high vis sweep to surface. Flow checked, well static. Pumped slug.  
Pulled out of the hole 15,016' - 7191'. No drag observed and hole took proper fill.  
Pulled rotating element and installed trip nipple.  
Pulled out of the hole 7191' - 1007'. No drag observed and hole took proper fill.

♦Note: (----No----) Accidents / Incidents reported ☐

♦Rig Diesel: ( 10,938 ) •Used: ( 2240 ) gal •Total Used: ( 53,413 ) gal •Rec: ( 7300 ) gal. ☐

♦Mud Diesel: ( 7753 ) gal •Used: ( 1819 ) gal •Total Used: ( 14,349 ) gal •Rec: ( 0 ) gal.

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AFE NUMBER 190107 START DATE : 1/12/2019 MIRU DATE : 2/12/2019 SPUD DATE : 2/17/2019

GROSS AFE : \$7,895 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 04/17/2019

G-DC : \$66,681 G-CC : \$3,225,968 DR TD : 15,018 PBTD : 2

ONE LINER: TOO H 1007'-150'. PU new motor. MU new Reed bit. TIH 150'-15016'. Circ btms up. Drill 15016'-15018'. Lost diff and torque. Circ. TOO H 15018'-150'. MU new motor and re-run bit. TIH 150'-9547'.

### DAILY ACTIVITY:

Tripped out of hole 1007' - 150'. Hole took proper fill.  
Racked back Monel's. Motor would not drain and turned freely to the left. Broke off bit. Bit had chipped gauge cutters. Picked up new motor and scribed. Tested motor and MWD. Made up new Reed bit.  
Tripped in hole 150' - 11,432'. Filled pipe every 30 stands.  
Pulled trip nipple and installed rotating element.  
Tripped in the hole 11,432' - 15,016'. Filled pipe every 30 stands.  
Circulated bottoms up through gasbuster for safety. Max gas was 2039 units.  
Rotate drilled 15,016' - 15,018' and lost differential and torque. Troubleshoot and decision made to trip out.  
Circulated and built slug. Flow checked and well static. Pumped slug.  
Tripped out of hole 15,018' - 7191'. No drag observed and hole took proper fill.  
Pulled rotating element and installed trip nipple.  
Tripped out of hole 7191' - 150'. Hole took proper fill.  
Racked back Monel's. Laid down motor. Motor turned freely. Picked up new motor and scribed. Tested motor and MWD. Made up re-run bit.  
Serviced rig and topdrive.  
Tripped in the hole 150' - 9547'.

♦Note: (---No---) Accidents / Incidents reported ☐

♦Rig Diesel: ( 9999 ) •Used: ( 939 ) gal •Total Used: ( 54,352 ) gal •Rec: ( 0 ) gal. ☐

♦Mud Diesel: ( 7753 ) gal •Used: ( 0 ) gal •Total Used: ( 14,349 ) gal •Rec: ( 0 ) gal.

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AFE NUMBER 190107 START DATE : 1/12/2019 MIRU DATE : 2/12/2019 SPUD DATE : 2/17/2019

GROSS AFE : \$7,895 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 04/18/2019

G-DC : \$62,699 G-CC : \$3,288,667 DR TD : 15,697 PBTD : 679

ONE LINER: TIH 9547'-15018'. Circ btms up for safety. Rot & sld 15018'-15697'. Made repairs to drawworks. Changed target to 10930' TVD @ 5000' VS.

### DAILY ACTIVITY:

Tripped in hole 9547' - 10,950'. Filled pipe every 30 stands.  
 Pulled trip nipple and installed rotating element.  
 Tripped in the hole 10,950' - 15,018'. Filled pipe every 30 stands.  
 Circulated bottoms up through gasbuster for safety. Max gas was 1327 units.  
 Rotate drilled 15,018' - 15,026' (8' @ 16.0 fph), Slide drilled 15,026' - 15,038' (12' @ 12.0 fph).  
 Rotate drilled 15,038' - 15,121' (83' @ 55.3 fph), Slide drilled 15,121' - 15,130' (9' @ 18.0 fph).  
 Rotate drilled 15,130' - 15,211' (81' @ 40.5 fph), Slide drilled 15,211' - 15,221' (10' @ 20.0 fph).  
 Rotate drilled 15,221' - 15,294' (73' @ 48.6 fph).  
 Made repairs to drawworks, replaced Moxy switch and temperature sensor.  
 Rotate drilled 15,294' - 15,400' (106' @ 53.0 fph), Slide drilled 15,400' - 15,410' (10' @ 10.0 fph).  
 Target Change: Old Target: 10,910' TVD @ 5000' VS. New Target: 10,930' TVD @ 5000' VS.  
 Rotate drilled 15,410' - 15,483' (73' @ 73 fph).  
 Serviced rig and topdrive.  
 Rotate drilled 15,483' - 15,494' (11' @ 22.0 fph), Slide drilled 15,494' - 15,504' (10' @ 20.0 fph).  
 Rotate drilled 15,504' - 15,683' (179' @ 51.1 fph), Slide drilled 15,683' - 15,697' (14' @ 14.0 fph).

♦Note: (----No----) Accidents / Incidents reported ☐  
 ♦Rig Diesel: ( 8246 ) •Used: ( 1753 ) gal •Total Used: ( 56,105 ) gal •Rec: ( 0 ) gal. ☐  
 ♦Mud Diesel: ( 5600 ) gal •Used: ( 2153 ) gal •Total Used: ( 16,502 ) gal •Rec: ( 0 ) gal.

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AFE NUMBER 190107 START DATE : 1/12/2019 MIRU DATE : 2/12/2019 SPUD DATE : 2/17/2019

GROSS AFE : \$7,895 RDMO DATE : 4/22/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/19/2019

G-DC : \$69,348 G-CC : \$3,807,167 DR TD : 16,249 PBTD : 552

ONE LINER: Rot & sld 15697'-16249'. Circ. TOOH 16249'-11077'. Wash & ream f/11077'-14949'

### DAILY ACTIVITY:

Rotate drilled 15,697' - 15,777' (80' @ 53.3 fph), Slide drilled 15,777' - 15,786' (9' @ 9.0 fph).  
Rotate drilled 15,785' - 16,249' (464' @ 48.8 fph).  
Circulated high vis sweep to surface. Flow checked, well static. Pumped slug.  
Short tripped 16,249' - 11,077'. No drag observed and hole took proper fill.  
Serviced rig and topdrive.  
Washed and reamed lateral 11,077' - 14,949'.

♦Note: (----No----) Accidents / Incidents reported ☐

♦Rig Diesel: ( 6663 ) •Used: ( 1583 ) gal •Total Used: ( 57,688 ) gal •Rec: ( 0 ) gal. ☐

♦Mud Diesel: ( 4440 ) gal •Used: ( 1160 ) gal •Total Used: ( 17,662 ) gal •Rec: ( 0 ) gal.

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AFE NUMBER 190107 START DATE : 1/12/2019 MIRU DATE : 2/12/2019 SPUD DATE : 2/17/2019

GROSS AFE : \$7,895 RDMO DATE : 4/22/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/20/2019

G-DC : \$248,882 G-CC : \$3,807,167 DR TD : 16,249 PBTD : 0

ONE LINER: Wash & ream lateral 14949'-16249'. Circ btms up. Short trip f/16249'-11077'. TIH 11077'-16249'. Circ. TOO H 16249'-150'. PJSM. RU csg crew.

### DAILY ACTIVITY:

Washed and reamed lateral 14,949' - 16,249'.  
Circulated bottoms up and flow checked. Well was static. Pumped slug.  
Short tripped 16,249' - 11,077'. No drag observed and hole took proper fill.  
Tripped in hole 11,077' - 16,249'. No drag observed.  
Circulated high vis sweeps surface to surface. Flow checked and well was static. Spotted bead pill in lateral and pumped slug.  
Tripped out of hole 16,249' - 7191'. No drag observed and hole took proper fill.  
Pulled rotating element and installed trip nipple.  
Tripped out of hole 7191' - 150'. Hole took proper fill.  
Laid down Drill-n-Ream, Racked back Monel's. Laid down MWD and motor.  
Serviced rig and topdrive. Cleaned and cleared rig floor.  
Held safety meeting with all personnel. Rigged up Pipe Pros casing crew and torque turn. Thread rep and Innovex liner hanger rep on location.  
Made up float shoe, 2 jt 5-1/2", 23#, P110, TLW-SF casing.

Notified Linda #8 of intent to run/cement production liner @ 1545 hours 04/19/2019

♦Note: (----No----) Accidents / Incidents reported ☐

♦Rig Diesel: ( 12,009 ) ♦Used: ( 1955 ) gal ♦Total Used: ( 59,643 ) gal ♦Rec: ( 7301 ) gal. ☐

♦Mud Diesel: ( 3870 ) gal ♦Used: ( 570 ) gal ♦Total Used: ( 18,232 ) gal ♦Rec: ( 0 ) gal.



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AFE NUMBER 190107 START DATE : 1/12/2019 MIRU DATE : 2/12/2019 SPUD DATE : 2/17/2019

GROSS AFE : \$7,895 RDMO DATE : 4/22/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/21/2019

G-DC : \$63,765 G-CC : \$3,807,167 DR TD : 16,249 PBTD : 0

ONE LINER: MU float collar. PU/MU liner pkr, hanger, X-O, & jnt assy to 6040'. RD csg crew. Broke circ @ 6160'. Circ btms up. TIH 6160'-16240'. Wash & circ btms up. PJSM. Cmt w/490 sxs.

### DAILY ACTIVITY:

Made up float collar / landing collar and 144 joints 5-1/2", 23#, P110, TLW/SF casing to 6002'.  
 Picked up / Made up Innovex Scout liner packer, Ranger Hanger, X-O, pup joint assembly to 6040'.  
 Made up running tool and bumper sub. Ran in hole with 1 stand drill pipe and broke circulation @ 6160' with 4.0 bpm @ 800 psi. Rigged down Pipe Pros casing crew and torque turn. Circulated 1x bottom up. Tripped in hole 6160' - 10,970' at 1.5 minutes per stand. Filled pipe every 30 stands. Pulled trip nipple and installed rotating element. Tripped in hole 10,970' - 16,240'. Filled pipe every 30 stands. Wash and circulate bottoms up @ 3.5 bpm -975 psi. Max gas 426 units. PU wt. @ 260, SO WT @ 155k. Broke out drill pipe and dropped 1.5" Phenolic ball and seated at 2 bpm with 2454 psi. PU weight @ 260k, bumper sub opened @ 180k close. Slack off to bumper sub close. Bleed off pressure, and slack off to 120k, 60k on hanger. Pull to bumper open, slack off 60k on hanger. PU to 160k. Rotate RH 10 rounds at 15 RPM, 2.5k torque to ensure setting tools were free. Pulled up to bumper sub open + 3'. Tools free. Slack off 100k to ensure Hanger set. Opened ball seat at 2860 psi and broke circulation. TOL @ 10,199'. Held safety meeting with all personnel and circulated. Picked up and made up Innovex cement head. Closed TIW valve and screw in with Top Drive. Tested lines to 6k. Pumped 25 bbls Spacer @ 12.0 ppg. Cement with 490 sx Class H/Poz 65/35 + 6.0% Gel + .5% HP FL + .02% LT FL + .25% LT Retarder + .2% AF + .3% FL/GM (117 bbls, 14.4 ppg, 1.35 yield).

Notified Linda #8 of intent to run/cement production liner @ 1545 hours 04/19/2019

♦Note: (----No----) Accidents / Incidents reported ☐

♦Rig Diesel: ( 11,302 ) ♦Used: ( 707 ) gal ♦Total Used: ( 60,350 ) gal ♦Rec: ( 0 ) gal. ☐

♦Mud Diesel: ( 3870 ) gal ♦Used: ( 0 ) gal ♦Total Used: ( 18,232 ) gal ♦Rec: ( 0 ) gal.

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DR DATE 04/22/2019

G-DC : \$136,506 G-CC : \$3,807,167 DR TD : 16,249 PBTD : 0

ONE LINER: Cont to cmt liner. TOO H 10199'-26'. PJSM. RD. Prep to walk rig to 201H.

### DAILY ACTIVITY:

Continued to cement 5-1/2" liner. Dropped Pump Down Plug from cement head. Displaced with 140 bbls fresh water + sugar + 3% clay treat and 97 bbls OBM @ 11.8 ppg. Bumped plug with 800 psi over final displacement pressure, floats held. Bled back 2.5 bbls. Picked up bumper sub to open, picked up additional 10'. Slack off 60k down on packer to set and pack off. Observed 2 shears on way down. Pressured up 400 psi. Picked up out of liner top and established circulation. Circulated bottoms up. Returned 25 bbls cement and 25 bbls spacer. Stung back in liner and tested backside to 1500 psi. Bled psi to zero. Picked up to clear liner top and displace well with 500 bbls fresh water + 3% clay treat (calculated 420 bbls) with C&J Energy. Rigged down C&J energy. Tripped out of hole 10,199' - 8670'. Filled backside with fresh water. Pulled rotating element and installed trip nipple. Tripped out of hole 8670' - 26'. Filled backside with fresh water. Laid down Innovex running tools and loaded out. Cleaned and cleared rig floor. Pulled mousehole, nipped down flowline, bled off hydraulic pressure, removed turnbuckles and engaged BOP Wrangler. Held safety meeting with Monahans Nipple Up crew and nipped down at B-Section. Raised BOP stack and removed spool and bit guide. Nipped up 11" 5M x 11" 10M Tubinghead and capping flange. Tested to 5000 psi. Prepared to walk rig from Woodberry 3 101H to Woodberry 3 201H. WELL COMPLETED Release Rig 04/21/2019 @ 0000 hrs.

Notified Linda #8 of intent to run/cement production liner @ 1545 hours 04/19/2019

♦Note: (----No----) Accidents / Incidents reported ☐

♦Rig Diesel: ( 10,478 ) ♦Used: ( 824 ) gal ♦Total Used: ( 61,174 ) gal ♦Rec: ( 0 ) gal. ☐

♦Mud Diesel: ( 3870 ) gal ♦Used: ( 0 ) gal ♦Total Used: ( 18,232 ) gal ♦Rec: ( 0 ) gal.