

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

DR DATE	07/18/2019
G-DC :	\$218,773
G-CC :	\$5,995,205
DR TD :	16,060
PBTD :	0

ONE LINER: Frac stg #29. Perf stg #30. Frac stg #30. Perf stg #31. Frac stg #31. Perf stg #32. Frac stg #32. Frac complete. RDMO frac fleet.

### DAILY ACTIVITY:

Frac Stage #29  
 Plug Btm perf Top perf Max press Avg press Max Rate  
 11,715' 11,705' 11,577' 10,089 9,795 96.7  
 Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White  
 91.8 8.051 8,486 363,240 0  
 Gradient - 0.88 ISIP- 4,816  
 Perf Stage #30. Set Plug @ 11,557'. Perf 11,547', 11,525', 11,504'  
 11,482', 11,461', 11,440', 11,421'. Total PDV-177 bbls.  
 Frac Stage #30  
 Plug Btm perf Top perf Max press Avg press Max Rate  
 11,557' 11,547' 11,421 10,089 9,599 99.8  
 Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White  
 94.1 8,204 8,654 367,340 0  
 Gradient - 0.88 ISIP- 4,783  
 Perf Stage #31. Set Plug @ 11,398'. Perf 11,388', 11,367', 11,346'  
 11,324', 11,303', 11,282', 11,260'. Total PDV-162 bbls.  
 Frac Stage #31  
 Plug Btm perf Top perf Max press Avg press Max Rate  
 11,398' 11,388' 11,260' 9,923 9,605 100.4  
 Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White  
 94.8 7,965 8,401 367,100 0  
 Gradient - 0.89 ISIP- 4,876  
 Perf Stage #32. Set Plug @ 11,240'. Perf 11,230', 11,209', 11,188'  
 11,165', 11,145', 11,124', 11,102'. Total PDV-162 bbls.  
 Frac Stage #32  
 Plug Btm perf Top perf Max press Avg press Max Rate  
 11,240' 11,230' 11,102' 10,059 9,783 101.5  
 Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White  
 94.8 7,862 8,289 360,440 0  
 Gradient - 0.87 ISIP- 4,665  
 FRAC Complete  
 RDMO Frac Fleet Pumps Blender and Iron  
 RDMO Eline and Pump down equipment  
 0530 SITP 3600 psi

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**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 :** 4/22/2019      **PROD Start DATE :**      **FINALIZED DATE :**

**DR DATE** 07/19/2019

**G-DC :** \$18,174      **G-CC :** \$6,013,379      **DR TD :** 16,060      **PBTD :** 0

**ONE LINER:** Cont to RDMO frac fleet. ND crown valve & goat head. Release acid tanks, RDMO sand silos, & equip. Beg spotting CTU & equip.

**DAILY ACTIVITY:**

Continue to RDMO CJ frac fleet. ND Crown valve & goat head.  
Released Acid Tanks, RDMO sand silos & sand handling equipment.

Begin spotting Cretic/CC Forbes 2-5/8" CTU and equipment

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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 : 4/22/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 07/20/2019

G-DC : \$23,804 G-CC : \$6,144,486 DR TD : 16,060 PBTD : 0

ONE LINER: RU CTU. MU BHA. RIH w/ bit & motor assy. Tag plug #1 @ 11248'. Mill plugs 1-22. P/ sweeps & perform wiper trip up to 10130'. RBIH to 11200 @ RT.

### DAILY ACTIVITY:

RU Cretic 2 5/8" CTU, Tornado mixing plant, FESCO Hyd Choke pkg. slip on coil connector, pull test 45,000#. MU Spreme BHA, see details below.  
Test riser 250# low & 7500# high. Good test.  
RIH w/ Bit & motor assy.  
Tagged plug #1 @ 11,248' CTM. 8' deep of Eline  
Mill plugs 1-11 plugs. Tag plug 12 @ 12,983' CTM  
Average mill time 15 minutes.  
Pump 10-20-10 sweep and perform wiper trip up to 10,160'  
RBIH to plug to plug #12.  
Mill plugs 12-22 plugs. Tag plug 23 @ 14,710' CTM  
Average mill time 17 minutes.  
Pump 10-20-10 sweep and perform wiper trip up to 10,130'  
RBIH to 11,200' at report time

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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 07/21/2019

G-DC : \$95,121 G-CC : \$6,144,486 DR TD : 16,060 PBTD : 0

ONE LINER: Tag plug #23 @ 14706'. Mill plugs 23-31. TIH & tag float shoe @ 16126'. Pump sweeps & circ out. POOH. Tie into csg valve & p/225 bbls 2% KCL dwn csg. ND BOP's & LD CT BHA. Wait on CTU ops 201H.

### DAILY ACTIVITY:

Tag plug #23 @ 14,706' CTM  
Mill plugs 23-31 5 bbls sweep after ea. Plug.  
Average mill time 10 min per plug. TIH and tag Float shoe @ 16,126' CTM.  
Pump 10-20-10 sweeps at TD and circulate out. POOH, circulating 5 BBL  
sweeps @ heel & liner top; repeating 3xs then continue to POOH.  
Tie into casing valve and pump 225 bbls of 2% KCL treated water down  
casing at 5.5 BPM 3600 psi.  
ND BOP's and lay down CT bha.  
SI post CTCO waiting on 201H CT operations

SICP Post Clean out 3650 psi

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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** 07/22/2019

**G-DC :** \$12,182      **G-CC :** \$6,144,486      **DR TD :** 16,060      **PBTD :** 0

**ONE LINER:** Standby CTU ops 201H. SICP – 3650#

### DAILY ACTIVITY:

Added Crane cost to 3101-01  
Stand by CTU Ops. 201H  
  
SICP 3650 psi

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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 : 4/22/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 07/23/2019

G-DC : \$786,545 G-CC : \$6,931,031 DR TD : 16,060 PBTD : 0

ONE LINER: Standby CTU ops. MIRU eline unit. PU GRJB CCL tool string. RIH w/ 4.5" GRJB CCL to 10400'. Good run JB clean. MU pkr for 5.5 prod BHA. Rep riser. RIH & set @ 10396'. MU & RIH w/ WG plug. Set @ 10240'. Standby Eline ops 201H.

### DAILY ACTIVITY:

Stand by CTU Ops  
MIRU KLX E-line unit. Rig up lubricator and WL pressure control  
PU 4.5" GR/JB/CCL tool string. Test riser 4,000#  
RIH w/ 4.50" GR./JB/CCL, to 10,400'. Good run JB clean  
MU ASIX PKR for 5.5 23# production BHA (details below) tested riser  
4,000# leaked, repaired riser leak. Tested riser 4000# & RIH  
& set @ 10,396', middle of the 3rd joint below LT  
MU & RIH w/ Baker WG plug for 5.5" 23# csg. Set at 10,240'  
1st joint below LT  
Stand by Eline Ops on 201H

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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 : 4/22/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 07/24/2019

G-DC : \$28,237 G-CC : \$6,959,268 DR TD : 16,060 PBTD : 0

ONE LINER: MIRU forbes Rig #177. ND tbg head. Spear csg & pull slips. NU BOPE & test. RU csg crew & LD machine. Spear 5 1/2" csg, pressure up to 600 psi & work seals out of PBR. Circ well. LD top jnt w/spear & 125 jnts frac string.

### DAILY ACTIVITY:

Standby for forbes Rig #177  
MIRU Forbe 177. Open well, Surface casing 0 PSI, 10 3/4" 0 PSI  
7 5/8" SICP 500 PSI, and 5 1/2" 0 PSI. Bleed off 7 5/8"  
Nipple down 11" 10m x 7 1/16" 15m Tbg head.  
M/U casing spear, Spear 5 1/2" casing, P/U to 110K and  
remove slips. Slack off and release spear.  
N/U 11" x 10K BOPE dressed w/5 1/2" rams & blinds.  
Install test plug and test blinds 250 low and 3500 high,  
retrieve test plug.  
R/U Express Casing crew and Longhorn L/D machine.  
Spear into 5 1/2" casing and pressure up to 600 PSI on 5 1/2".  
Work pipe f/ 120k to 240K(String wt 180K), Work Innovex  
seals from PBR.  
Circ well volume pumping down the 5 1/2" 4.5 BPM @ 1300 PSI.  
L/D top jt with spear & 125 jts 5 1/2" 23# P110 TTRS1 frac string

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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 07/25/2019

G-DC : \$123,301 G-CC : \$7,082,569 DR TD : 16,060 PBTD : 0

ONE LINER: Cont POOH LD 5 1/2" frac string. Ttl of 224 jnts. Rd csg crew. ND BOP. NU tbg head. Inst & NU BOPE. MU retrieving head & RIH, PU 2 7/8" tbg. Tag TOL @ 10199'. Cont in hole, latch RBP @ 10240'. RIH to 10271'. POOH w/RBP.

### DAILY ACTIVITY:

Continue POOH LD 5 1/2" Frac string. Ttl of 244 jts.  
RD Express casing crew. ND 11"x 10M BOP & 11"5M x 11"  
10M head. Install & NU 11" 5M x 7 1/16" 5M tbg head.Test  
same to 5K. Install & NU 7 1/16" 5K BOPE.  
MU Retrieving head f/5 1/2" Baker WG RBP & RIH tallying &  
PU 2 7/8" EUE 8rd L-80 tbg. Tag TOL @ 10,199'.  
Continue in hole, Latch Baker WG RBP @ 10,240' ELM.  
set down 20K, let RBP equalize 15 mins, P/U pull 5k over  
RBP came free, Pull up the hole 10', RIH to 10,271'.  
POOH w/ RBP.



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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 07/26/2019

G-DC : \$34,051      G-CC : \$7,116,620      DR TD : 16,060      PBTD : 0

ONE LINER: Fin POOH w/RBP. TIH W/ on/off tool & 2 7/8" tbg & latched pkr @ 10396' & landed tbg w/12pts on pkr. ND BOPE. NU tree. RD. RU slickline & break disc. 7 hr test, 8/64, 2964 FTP, 170 BLW

### DAILY ACTIVITY:

Finish POOH w/WG RBP. LD same.  
 MU T-2 on/off tool & TIH.  
 Tagged pkr @ 10,396'. Spaced out tbg w/318 jts 2 7/8" L-80  
 tbg, 10' & 6' pups. Latched pkr. Pulled 15 pts over. Installed  
 hanger & Landed tbg w/12 pts on pkr. Test casing to 1000#psi.  
 ND BOPE. NU tree.  
 RD Forbes #177. Move over to 201H.  
 RU Fesco Slickline. M/U Tool string, 25' of 1 1/2" bars and  
 1 1/2" spang jar with 2.160" Two step chisel.  
 Test lubricator 4000#, Open well 0 psi, RIH w/ chisel.  
 Tag knock out disc @ 10,406' WLM, P/U 50', Pressure up  
 tubing to 3600#. Hit down 3 times, went down to 10,424' WLM  
 tubing pressure dropped to 3100#, POOH w/ slickline.  
 Pump down the tubing 8 bbls with rig pump @ 1BPM 3300#  
 R/D Fesco Slickline.  
 R/U Fesco Flowback. Open well on 8/64 choke, WH 3100#  
 Flowed back total of 170 bbls water. WH 2964# and flow rate  
 25 bbls/hr @ report time

KB		28'
6' 2-7/8" Pup Joint	3.69" OD	28'-34'
10' 2-7/8" Pup Joint	3.69" OD	34'-44'
318 Jts 2 7/8" EUE L-80		44'-10,395'
T-2 on/off tool		10,395'
AS-1X Packer	4.41" OD	10,396'
4' 2-7/8" Pup Joint	3.69" OD	10,396'-10,400'
XN Nipple 2.205 NG	3.66" OD	10,400'-10,401'
6' 2-7/8" Pup Joint	3.69" OD	10,401'-10,407'
Dual Disk Mule Shoe	3.67" OD	10,407'-10,408'

All Depths are WLM