
ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20180020 **AREA** WOLFCAMP **WELL** MESQUITE #102H (3rd BS)

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

AFE NUMBER 180201 **START DATE :** 3/30/2018 **MIRU DATE :** 6/5/2018 **SPUD DATE :** 6/13/2018

GROSS AFE : \$8,036 **RDMO DATE :** **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 08/28/2018

G-DC : \$0 **G-CC :** \$2,668,891 **DR TD :** 16,217 **PBTD :** 0

ONE LINER: Currently waiting on 5" Ultra flush jt. ETA Aug 31st.

DAILY ACTIVITY: Currently waiting on 5" Ultra fluh jt. ETA August 31

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GROSS AFE : \$8,036 **RDMO DATE :** **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 08/29/2018

G-DC : \$1,595 **G-CC :** \$2,670,486 **DR TD :** 16,217 **PBTD :** 0

ONE LINER: No activity waiting on Basic Rig.

DAILY ACTIVITY: No activity waiting on Basic Rig

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GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 08/30/2018

G-DC : \$24,206 G-CC : \$2,694,692 DR TD : 16,217 PBTD : 0

ONE LINER: NU BOPE & MIRU Basic Rig #1721. Unloaded, cleaned & drifted 5" Ultra Flush JT csg. PJSM. RU csg crew & torque turn. MU seal assy & RIH on 5" csg. Ran a tot of 80 jnts.

DAILY ACTIVITY:

N/U BOPE and MIRU Basic rig #1721
Set catwalk and pipe racks
Unloaded, cleaned and drifted 5" 18# Ultra Flush JT casing
Held Saftey meeting
R/U Express casing crew and torque turn.
Made up seal ASSM and RIH on 5", 18#, P-110, Ultra FJ casing
Ran a total of 80 Jt's

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GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 08/31/2018

G-DC : \$59,285 G-CC : \$2,753,977 DR TD : 16,217 PBTD : 0

ONE LINER: Cont RIH PU tie-back string. Tag top of PBR @ 10242'. Circ hole clean. Stung into TOL w/ tot of 243 jnts. ND BOPE. Cut off csg & NU tbg head. Inst & NU frac valve. RU pump truck. Test frac valve. Press test 5' & 4 1/2" to 8500# & held. RD Basic Rig

DAILY ACTIVITY: Continue RIH PU tie-back string. Tagged top of PBR @ 10242'. Circ hole clean w/2% KCL. Stung into TOL w/ ttl of 243 jts & piece. Dropped slips & landed casing w/ 50K down. Test annulus to 2500#psi f/30 minutes. N/D BOPE. Cut off casing. Install & NU 11" 10K x 7 1/16" 15K tubing head. Test void to 10K. Pack off to 17,000# Install & NU 15K frac valve. Install test plug. Test valve to 250# low and 14,500# High R/U J4 Pump truck. Opened 5" x 7" annulus to atmosphere. Pressured up on 5" tieback and 4 1/2" liner to 3000#. Held 5 MIN. Increased pressure to 6000# Held 5 MIN. Increased pressure to 8500# for 35MIN. No Leak off. Good casing test. Bled to 0# and secured well. R/D Basic Rig #1271

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AFE NUMBER 180201 **START DATE :** 3/30/2018 **MIRU DATE :** 6/5/2018 **SPUD DATE :** 6/13/2018

GROSS AFE : \$8,036 **RDMO DATE :** **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 09/01/2018

G-DC : \$11,550 **G-CC :** \$2,915,326 **DR TD :** 16,217 **PBTD :** 0

ONE LINER: Inst & test Frac trees to 14500#. Secure well.

DAILY ACTIVITY:

Installed and tested Frac trees to 14,500#
Secured well

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AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/02/2018

G-DC : \$66,561 G-CC : \$2,915,326 DR TD : 16,217 PBTD : 0

ONE LINER: MIRU CTU. MU BHA w/ bit & motor. RIH w/ coil pump. RIH & tag Orio sleeve @ 16086' CTM. P/sweep & started out of hole. Disp w/ clean KCL. Rig CTU to 103H. MI fesco pump trucks.

DAILY ACTIVITY:

MIRU C&J 2 3/8" CTU
Made up following BHA. 2.88" weld on coil connector, 2.88" double BPV, 2.88" Jars. 2.88" agitator, 2.88" filter sub, 2.88" Top Notch motor. 3 3/4" JZ rock bit
Tested to 6500# and started in hole. Lost communication with wheel house.
Made repairs.
RIH with coil rolling pump. Picked up rates to 2 BPM after getting into horizontal. RIH and tagged Orio sleeve @ 16086' CTM. Pumped 10-20-10 sweep and started out of hole. Displacing with clean 2%KCL.
Rig CTU over to U103H
Move in Fesco pump trucks

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AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/03/2018

G-DC : \$80,213 G-CC : \$2,915,326 DR TD : 16,217 PBTD : 0

ONE LINER: RU Fesco pump truck & pressure up to 10600# & can't open toe sleeve. RU CT & RIH w/ TCP & shoot just above toe sleeve @ 16095'. RU Fesco pump trucks & break down perfs & pump in @ 9.5 BPM & 6000#. RDMO CT CTU & support equip. SI, secure well.

DAILY ACTIVITY:

R/U Fesco Pump truck's
Tested Lines to 11,000#
Pressured up to 9800#. No action out of Orio sleeve.
Bled to 0# and pressured up to 10,600#. Again no action out of Orio sleeve.
Held 10,600 for 30 MIN. no leak off. Bled to 0#. Pressured back up to 10,600#. No action out of Orio. Holding 10,600# with no leak off.
Rig Fesco to 102H .
Stanby
Rig up CTU and GIH with 2- 3 1/8" X 1' TCP 6SPF.
Tagged ORIO sleeve @ 16,096 CTM, 16,077 csg, tally PU 1' & perf 16,095'-96" CTM 16,076'-77' csg tally Gun# 2 misfired.
POOH
RU FESCO pump trucks
Pressured up on 5" tieback and 4 1/2" Production casing to 6400 and broke back to 6000# at 3 BPM. Pumped 50 BBL's 2% Kcl, 20 BBL's 15% HCL And displaced w/ 330 BBLs 2% KCL @ 9.5 BPM @ 9500#. Pressure broke to 6000# when acid hit.
5 Min ISIP 4600#, 10 Min ISIP 4100, 15 Min ISIP 3600#
RDMO CJ CTU & support equipment.
SI, secure well

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GROSS AFE : \$8,036 **RDMO DATE :** **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 09/04/2018

G-DC : \$3,025 **G-CC :** \$2,915,326 **DR TD :** 16,217 **PBTD :** 0

ONE LINER: Set up meeting w/ Liberty field rep.

DAILY ACTIVITY: Set up meeting w/ Liberty field rep.

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AFE NUMBER 180201 **START DATE :** 3/30/2018 **MIRU DATE :** 6/5/2018 **SPUD DATE :** 6/13/2018

GROSS AFE : \$8,036 **RDMO DATE :** **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 09/05/2018

G-DC : \$3,289 **G-CC :** \$2,922,480 **DR TD :** 16,217 **PBTD :** 0

ONE LINER: Set up SRS to deliver & set acid tanks, containment & 10 Frac tanks. Set up Fesco to fin Frac trees & zipper manifold & test.

DAILY ACTIVITY:

Set up SRS to deliver & set 3 Acid Tanks and containment & 10 Frac tanks.

Set up FESCO to finish Frac trees & zipper manifold & test.

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AFE NUMBER 180201 **START DATE :** 3/30/2018 **MIRU DATE :** 6/5/2018 **SPUD DATE :** 6/13/2018

GROSS AFE : \$8,036 **RDMO DATE :** **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 09/06/2018

G-DC : \$3,865 **G-CC :** \$2,922,480 **DR TD :** 16,217 **PBTD :** 0

ONE LINER: NU Goat heads. Set zipper manifold, RU flowback lines. Tested all to 14500#. Set containment & acid tanks. Set 4 Frac tanks, will finish frac tanks tomorrow. Started laying water lines.

DAILY ACTIVITY:

NU Goat heads. Set Zipper manifold, RU flowback lines to open tops. tested all to 14,500#.

Set containment and Acid tanks. Set 4 frac tanks & will finish frac tanks tomorrow.

Started laying water lines.

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AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/07/2018

G-DC : \$2,601 G-CC : \$2,925,081 DR TD : 16,217 PBTD : 0

ONE LINER: Fin setting Frac tanks. RU water transfer.

DAILY ACTIVITY: Finished setting Frac Tanks
RU water transfer.

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GROSS AFE : \$8,036 **RDMO DATE :** **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 09/08/2018

G-DC : \$2,602 **G-CC :** \$2,951,908 **DR TD :** 16,217 **PBTD :** 0

ONE LINER: Cont to RU water transfer. Liberty set up pads for sand boxes.

DAILY ACTIVITY:

Continue to RU water transfer.

Liberty set pads for sand boxes.

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GROSS AFE : \$8,036 **RDMO DATE :** **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 09/09/2018

G-DC : \$2,602 **G-CC :** \$2,951,908 **DR TD :** 16,217 **PBTD :** 0

ONE LINER: RU water transfer, test water lines. Filled all Frac tanks to 6'. Liberty bringing sand boxes & Moving in Frac equip.

DAILY ACTIVITY:

RU water transfer, test water lines, 90 BPM. Put 120 BBLs water in acid tanks as per Liberty request. Filled all Frac tanks to 6'. Topped off pump down tanks. Liberty bringing sand boxes & Moving in Frac equipment.

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GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/10/2018

G-DC : \$21,623 G-CC : \$2,951,908 DR TD : 16,217 PBTD : 0

ONE LINER: MIRU Frac fleet. MIRU eline. Perform inj test. RIH perf stg #1. Stanby wait on Frac to complete RU.

DAILY ACTIVITY:

MIRU Liberty Frac fleet. MIRU FESCO Eline. And Frac support
Equipment
RU Eline, PU riser & test riser 9,500#.Fix several leaks.
Performed injection test. 12 BPM @ 7500#. Pumped 50 BBL's away
RIH perf stage #1. Perf 16,061',16,046',16,031',16,016',16,001', 15,986',
15,971',15,956',15,941',15,926'. Pumpdown vol-264 BBLs
Stand by wait on Frac to complete RU

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GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/12/2018

G-DC : \$276,884 G-CC : \$3,256,209 DR TD : 16,217 PBTD : 0

ONE LINER: Fin RU frac fleet. PJSM. Test lines. Frac stg #1. Perf stg #2. Frac stg #2.

DAILY ACTIVITY:

Finish R/U Liberty Frac fleet. Safety meeting
 Test Lines
 Standby Frac Ops
 Frac stage #1

Plug	Btm perf	Top perf	Max press	Avg press	Max Rate
NA	16,061'	15,926'	9,763#	9,359#	73.7 BPM
Avg Rate	Clean bbls	Slurry bbls	100 mesh	40/70 white	
67.4 BPM	13,679	14,141	124,530#	318,800#	
Gradient	ISIP				
.845	4201#				

RIH perf stage #2. Set plug @ 15,911, Perf 15,896',15,880', 15,865', 15,850', 15,835', 15,820',15,805',15,790', 15,775', 15,760', 15,745', Pump down volume 259 BBL's . Wait above tool trap.
 Frac stage #2

Plug	Btm perf	Top perf	Max press	Avg press	Max Rate
15,911'	15,897'	15,745'	9,808#	9,199#	76.8 BPM
Avg Rate	Clean bbls	Slurry bbls	100 mesh	40/70 white	
70.9 BPM	13,412	13,919	129,230#	325,020#	
Gradient	ISIP				
0.847	4,202				

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GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/13/2018

G-DC : \$243,280 G-CC : \$3,663,448 DR TD : 16,217 PBTD : 0

ONE LINER: Perf stg #3. Frac stg #3. Perf stg #4. Frac stg #4

DAILY ACTIVITY:

RIH perf stage #3. Set plug @ 15,730', Perf 15,715', 15,700', 15,685' 15,670', 15,655', 15,640', 15,625', 15,610', 15,595', 15,580', 15,565' Pump down volume 319 BBL's . Wait above tool trap.
Frac stage #3
Plug Btm perf Top perf Max press Avg press Max Rate
15,730' 15,715' 15,565 9,966# 9,411# 77.8
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
72.4 13,473 13,954 126,000# 323,700#
Gradient ISIP
.857 4591
E Line repair. Frac fleet pump matinance.
RIH perf stage #4. Set plug @ 15,550', Perf 15,535', 15,519', 15,504' 15,489', 15,474', 15,459', 15,444', 15,429', 15,414', 15,399', 15,384' Pump down volume 285 BBL's.
Frac stage #3
Plug Btm perf Top perf Max press Avg press Max Rate
15,550' 15,536' 15,384' 9821# 8515# 76.7 BPM
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
72.8 BPM 13,173 13,672 125,400# 449,320
Gradient ISIP
0.856 4218

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GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/14/2018

G-DC : \$163,959 G-CC : \$3,663,448 DR TD : 16,217 PBTD : 0

ONE LINER: Perf stg #5. Frac stg #5. Perf stg #6. Frac stg #6 at report time.

DAILY ACTIVITY:

RIH perf stage #5. Set plug @ 15,369', Perf 15,354', 15,339', 15,324', 15,309', 15,294', 15,279', 15,264', 15,249', 15,234', 15,219', 15,204'
Pump down volume 319 BBL's .
Standby Frac Ops
Pump Matinence
Frac stage #5
Plug Btm perf Top perf Max press Avg press Max Rate
15,369' 15,355' 15,204' 9998# 9612# 72.3 BPM
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
69.0 BPM 13,470 13,906 123,020# 324,530#
Gradient ISIP
0.852 4,430
RIH perf stage #6. Set plug @ 15,189', Perf 15,174', 15,158', 15,143', 15,128', 15,113', 15,098', 15,083', 15,068', 15,053', 15,038', 15,023'
Pump down volume 254 BBL's .
Stand by Frac Ops
Liberty pump repairs
Frac stage #6 @ report time

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GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/15/2018

G-DC : \$367,665 G-CC : \$4,527,043 DR TD : 16,217 PBTD : 0

ONE LINER: Frac stg #6. Perf stg #7. Frac stg #7. Perf stg #8. Frac stg #8

DAILY ACTIVITY:

Frac stage #6
 Plug Btm perf Top perf Max press Avg press Max Rate
 15,189' 15,174' 15,023' 10,030# 9,645# 75.8
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 70.0 12,745 13,242 127,000# 323,500#
 Gradient ISIP
 0.891 4,934#
 Grease Frac Trees. Change out flow tubes. Pump maintenance
 RIH perf stage #7. Set plug @ 15,008', Perf 14,993', 14,978', 14,963',
 14,948', 14,933', 14,918', 14,903', 14,888', 14,873', 14,858', 14,843'
 Pump down volume 216 BBL's .
 Frac stage #7
 Plug Btm perf Top perf Max press Avg press Max Rate
 15,008' 14,993' 14,843' 9,996# 9,663# 67.2
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 63.4 13,658 14,088 127,040# 322,690#
 Gradient ISIP
 0.896 4,975#
 RIH perf stage #8. Set plug @ 14,828' Perf 14,813', 14,797', 14,782',
 14,767', 14,752', 14,737', 14,722', 14,707', 14,692', 14,677', 14,622'
 Pump down volume 194 BBL's .
 Replace Crown valve. Frac pump maintenance
 Frac stage #8
 Plug Btm perf Top perf Max press Avg press Max Rate
 14,828' 14,814' 14,622' 9,895# 9,650# 69.9 BPM
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 64.8 BPM 13,368 13,870 127,990# 323,280#
 Gradient ISIP
 0.882 4,493

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GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/16/2018

G-DC : \$263,178 G-CC : \$4,527,043 DR TD : 16,217 PBTD : 0

ONE LINER: Perf stg #9. Frac stg #9. RIH to perf stage #10. Misfire. Standby frac ops. RIH perf stg #10. Frac stg #10. Perf stg #11.

DAILY ACTIVITY:

RIH perf stage #9. Set plug @ 14,647' Perf 14,632', 14,617', 14,602', 14,587', 14,572', 14,557', 14,542', 14,527', 14,512', 14,497', 14,482', Pump down volume 190 BBL's . Wait in lubricator
Frac stage #9
Plug Btm perf Top perf Max press Avg press Max Rate
14,647' 14,633' 14,482' 10,200# 9,639# 73.1
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
68.7 13,458 13,907 128,010# 325,430#
Gradient ISIP
0.874 4,392#
RIH perf stage #10. Plug misfire. Stand by Frac above tool trap.
LD Plug/perf tool string. Trouble shoot & bench test plug & gun componets.
Tested good. Suspect bad ground. Rehead, MU fresh Plug & perf string.
Changed igniter w/ one from new box from a different supplier & RIH
RIH perf stage #10. Set plug @ 14,467' Perf 14,452', 14,436', 14,421', 14,406', 14,391', 14,376', 14,361', 14,346', 14,331', 14,316', 14,301', Pump down volume 364 BBL's .
Frac stage #10
Plug Btm perf Top perf Max press Avg press Max Rate
14,467' 14,453' 14,301 9,963 9,685 73.7
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
69.3 13,010 13,546 128,250 323,980
Gradient ISIP
.089 4896
RIH perf stage #11. Set plug @ 14,268' Perf 14,271', 14,256', 14,241', 14,226', 14,211', 14,196', 14,181', 14,166', 14,151', 14,136', 14,121', Pump down volume 155 BBL's . Stand by above tool trap for Frac Ops

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GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/17/2018

G-DC : \$232,752 G-CC : \$4,527,043 DR TD : 16,217 PBTD : 0

ONE LINER: Standby frac ops. Chng out frac pumps. Frac stg #11. Perf stg #12. Frac stg #12. Perf stg #13. Frac stg #13 at report time.

DAILY ACTIVITY:

Standby Frac Ops
Change out Frac pumps
Frac stage #11
Plug Btm perf Top perf Max press Avg press Max Rate
14,286' 14,271' 14,121' 9,952# 9,653# 72.3
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
68.3 13,377 13,851 126,460# 325,500#
Gradient ISIP
0.885 4,836#
RIH perf stage #12. Set plug @ 14,106' - Perf 14,091', 14,075', 14,060'
14,045', 14,030', 14,015', 14,000', 13,985', 13,970', 13,955', 13,940'
Pump down volume 150 BBL's . Stand by Frac Ops, above tool trap
Frac stage #12
Plug Btm perf Top perf Max press Avg press Max Rate
14,106' 14,092' 13,940' 9,959# 9,743# 73.7
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
68.2 12,417 12,871 126,450# 323,020#
Gradient ISIP
0.899 4,578#
RIH perf stage #13. Set plug @ 13,925' - Perf 13,910', 13,875', 13,880'
13,865', 13,850', 13,835', 13,820', 13,805', 13,790', 13,775', 13,760'
Pump down volume 151 BBL's . Stand by Frac Ops, above tool trap
Frac stage #13 @ report time

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20180020 AREA WOLFCAMP WELL MESQUITE #102H (3rd BS)

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

AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/18/2018

G-DC : \$340,509 G-CC : \$4,867,552 DR TD : 16,217 PBTD : 0

ONE LINER: Frac stg #13. Perf stg #14. Frac stg #14. Perf stg #15. Frac stg #15. RIH plug & perf stg #16 @ report time.

DAILY ACTIVITY:

Frac stage #13
 Plug Btm perf Top perf Max press Avg press Max Rate
 13,925' 13,910' 13,760' 10,034# 9,721# 70.3
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 65 13,052 13,560 126,360# 323,040#
 Gradient ISIP
 0.887 4,840#
 RIH perf stage #14. Set plug @ 13,745' - Perf 13,730', 13,714', 13,699',
 13,684', 13,699', 13,654', 13,639', 13,624', 13,609', 13,594', 13,579'
 Pump down volume 135 BBL's . Stand by Frac Ops,above tool trap
 Frac stage #14
 Plug Btm perf Top perf Max press Avg press Max Rate
 13,745' 13,731' 13,579' 9,982# 9,688# 72.7
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 66.8 13,146 13,624 126,110# 449,200#
 Gradient ISIP
 0.912 4,665#
 RIH perf stage #15. Set plug @ 13,564' - Perf 13,549', 13,534', 13,519',
 13,504', 13,489', 13,474', 13,459', 13,444', 13,429', 13,141', 13,399'
 Pump down volume 122 BBL's . Stand by Frac Ops,above tool trap
 Repair Blender
 Frac stage #15
 Plug Btm perf Top perf Max press Avg press Max Rate
 13,564' 13,550' 13,399' 9,898# 9,707# 75.0
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 70.1 12,625 13,153 126,300 322,370
 Gradient ISIP
 0.912 4,717#
 RIH plug & perf Stage # 16

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20180020 AREA WOLFCAMP WELL MESQUITE #102H (3rd BS)

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

AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/19/2018

G-DC : \$268,398 G-CC : \$5,382,410 DR TD : 16,217 PBTD : 0

ONE LINER: Perf stg #16. Frac stg #16. Perf stg #17. Frac stg #17. Perf stg #18.

DAILY ACTIVITY:

RIH perf stage #16. Set plug @ 13,384' - Perf 13,369', 13,353', 13,338', 13,323', 13,308', 13,293', 13,278', 13,263', 13,248', 13,233', 13,218'.
Pump down volume-126 bbls. Stand by Frac Ops, above tool trap.
Frac stage #16
Plug Btm perf Top perf Max press Avg press Max Rate
13,384' 13,370' 13,218' 9,934# 9,396# 74.8
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
68.0 12,815 14,270 125,295# 322,360#
Gradient ISIP
0.913 4,599#
RIH perf stage #17. Set plug @ 13,203' - Perf 13,188', 13,173', 13,158', 13,143', 13,128', 13,113', 13,098', 13,083', 13,068', 13,053', 13,038'.
Pump down volume-109 bbls. Stand by Frac Ops, above tool trap.
Frac maintenance,replace starter on blender/Grease zipper valves
Frac stage #17
Plug Btm perf Top perf Max press Avg press Max Rate
13,203' 13,189 13,038' 9,913# 9,673# 71.5
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
67.0 13,053 13,545 126,960# 323,420#
Gradient ISIP
0.963 4,897#
Frac Maintenance/Grease Frac trees
RIH perf stage #18. Set plug @ 13,024' - Perf 13,1008', 12,992', 12,977', 12,962', 12,947', 12,932', 12,917', 12,902', 12,887', 12,872', 12,857'.
Pump down volume 102 bbls. Stand by Frac Ops, above tool trap.

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Daily Drilling Report

BGT # 20180020 AREA WOLFCAMP WELL MESQUITE #102H (3rd BS)

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

AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/20/2018

G-DC : \$246,460 G-CC : \$5,382,410 DR TD : 16,217 PBTD : 0

ONE LINER: Frac stg #18. Perf stg #19. Frac stg #19. Wait on Eline ops 103H, frac maint. & rep blender. Perf stg #20.

DAILY ACTIVITY:

Frac stage #18
 Plug Btm perf Top perf Max press Avg press Max Rate
 13,024' 13,008' 12,857' 9,915# 9,608# 75.1
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 67.7 12,934 13,430 126,340# 322,260#
 Gradient ISIP
 0.980 5,803#
 RIH perf stage #19. Set plug @ 12,842'. Perf 12,827', 12,812', 12,797',
 12,782', 12,767', 12,752', 12,737', 12,722', 12,707', 12,692', 12,677'.
 Pump down volume 129. Standby frac ops, above tool trap.
 Frac stage #19
 Plug Btm perf Top perf Max press Avg press Max Rate
 12,842' 12,828' 12,867' 9,938# 9,703# 73.9
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 69.3 13,269 13,744 124,150# 326,680#
 Gradient ISIP
 0.917 5,031#
 Wait on Eline OPS 103H, Frac Maintenance, Repair Blender
 RIH perf stage #20. Set plug @ 12,662'. Perf 12,647', 12,631', 12,616',
 12,601', 12,586', 12,571', 12,556', 12,541', 12,526', 12,511', 12,496'.
 Pump down volume 113.
 Stand by Frac Ops

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Daily Drilling Report

BGT # 20180020 AREA WOLFCAMP WELL MESQUITE #102H (3rd BS)

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

AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/21/2018

G-DC : \$260,176 G-CC : \$5,642,586 DR TD : 16,217 PBTD : 0

ONE LINER: Frac stg #20. Perf stg #21. Frac stg #21. SD for weather, lightning. Resume Frac stg #21. Perf stg #22. Frac stg #22 @ report time.

DAILY ACTIVITY:

Frac stage #20
 Plug Btm perf Top perf Max press Avg press Max Rate
 12,662' 12,647' 12,496' 9,920# 9,553# 77.5
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 70.9 12,982 13,491 126,130# 323,050#
 Gradient ISIP
 0.950 5,476#
 RIH perf stage # 21. Set plug @ 12,481'. Perf 12,466', 12,451', 12,436',
 12,421', 12,406', 12,391', 12,376', 12,361', 12,346', 12,331', 12,316'.
 Pump down volume 90 bbls. Standby frac ops, above tool trap.
 Grease frac stack and zipper valves.
 Frac stage #21. SD for weather, Lightning
 Frac stage #21. Resume FRAC
 Frac stage #21
 Plug Btm perf Top perf Max press Avg press Max Rate
 12,481' 12,467' 12,327' 10,056# 9,644# 75.5
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 69.9 12,973 13,471 126,140# 323,700#
 Gradient ISIP
 0.941 4,937#
 RIH perf stage # 22. Set plug @ 12,301'. Perf 12,286', 12,270', 12,255',
 12,240', 12,225', 12,210', 12,195', 12,180', 12,165', 12,150', 12,135'.
 Pump down volume 89 bbls. Standby frac ops, above tool trap.
 Frac stage #22 @ report time

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Daily Drilling Report

BGT #	20180020	AREA	WOLFCAMP	WELL	MESQUITE #102H (3rd BS)
PROPOSAL	DRILL & COMPLETE A HORIZONTAL 3RD BONE SPRING WITH A 5000'+ LATERAL.				
AFE NUMBER	180201	START DATE :	3/30/2018	MIRU DATE :	6/5/2018
SPUD DATE :	6/13/2018				
GROSS AFE :	\$8,036	RDMO DATE :		PROD Start DATE :	
FINALIZED DATE :					

DR DATE 09/22/2018

G-DC : \$364,522 G-CC : \$6,428,238 DR TD : 16,217 PBTD : 0

ONE LINER: Frac stg #22. Perf stg #23. Frac stg #23. Perf stg #24. Frac stg #24. Perf stg #25 @ report time.

DAILY ACTIVITY:

Frac stage #22
 Plug Btm perf Top perf Max press Avg press Max Rate
 12,301' 12,287' 12,135' 9,849# 8,997# 75.5
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 68.7 14,068 14,606 127,255# 323,650#
 Gradient ISIP
 0.937 5,331#
 RIH perf stage #23. Set plug @ 12,120'. Perf 12,105', 12,090', 12,075',
 12,060', 12,045', 12,030', 12,015', 12,000', 11,985', 11,970', 11,955'.
 Pump down volume-81 bbls. Stand by frac ops, above tool trap.
 Grease frac stack and zipper valves
 Frac stage #23
 Plug Btm perf Top perf Max press Avg press Max Rate
 12,120' 12,106' 11,955' 9,920# 9,578# 76.9
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 72.9 13,271 13,734 126,300# 324,420#
 Gradient ISIP
 0.943 4,791#
 RIH perf stage #24. Set plug @ 11,940'. Perf 11,925', 11,909', 11,894',
 11,879', 11,864', 11,849', 11,834', 11,819', 11,804', 11,789', 11,774'.
 Pump down volume-63 bbls. Stand by frac ops, above tool trap.
 Frac stage #24
 Plug Btm perf Top perf Max press Avg press Max Rate
 11,940' 11,926' 11,774' 9,862# 9,635# 75.8
 Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
 70.3 12,475 12,973 126,620# 321,490#
 Gradient ISIP
 0.969 4,925#
 RIH perf stage #25 @ report time

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Daily Drilling Report

BGT # 20180020 AREA WOLFCAMP WELL MESQUITE #102H (3rd BS)

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

AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/23/2018

G-DC : \$213,125 G-CC : \$6,428,238 DR TD : 16,217 PBTD : 0

ONE LINER: Perf stg # 25. Frac stg #25. Perf stg #26. Frac stg #26. Perf stg #27. Frac stg #27 @ report time.

DAILY ACTIVITY:

RIH perf stage #25. Set plug @ 11,759'. Perf 11,744', 11,729', 11,714', 11,699', 11,684', 11,669', 11,654', 11,639', 11,624', 11,609', 11,594'.
 Pump down volume-62 bbls. Stand by frac ops, above tool trap.
 Grease fracstack and zipper valves. Replace flow tubes in grease head.
 Frac stage #25

Plug	Btm perf	Top perf	Max press	Avg press	Max Rate
11,759'	11,745'	11,594'	9,908#	9,534#	76.5
Avg Rate	Clean bbls	Slurry bbls	100 mesh	40/70 white	
71.1	13,159	13,630	125,620#	324,220#	
Gradient	ISIP				
0.926	5,219#				

RIH perf stage #26. Set plug @ 11,579'. Perf 11,564', 11,548', 11,533', 11,518', 11,503', 11,488', 11,473', 11,458', 11,443', 11,428', 11,413'.
 Pump down volume-54 bbls. Stand by frac ops, above tool trap.
 Frac stage #26

Plug	Btm perf	Top perf	Max press	Avg press	Max Rate
11,579'	11,565'	11,413'	9,861#	9,533#	76.5
Avg Rate	Clean bbls	Slurry bbls	100 mesh	40/70 white	
70.8	13,262	13,734	126,370#	324,600#	
Gradient	ISIP				
0.881	4,408#				

RIH perf stage #27. Set plug @ 11,398'. Perf 11,383', 11,368', 11,353', 11,338', 11,323', 11,308', 11,293', 11,278', 11,263', 11,248', 11,233'.
 Pump down volume-134 bbls. Stand by frac ops, above tool trap.
 Frac stage #27 @ report time

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Daily Drilling Report

BGT # 20180020 AREA WOLFCAMP WELL MESQUITE #102H (3rd BS)

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

AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/24/2018

G-DC : \$208,005 G-CC : \$6,428,238 DR TD : 16,217 PBTD : 0

ONE LINER: Frac stg #27. Stg 27 of 27 complete. Standby frac ops U103H. RDM frac fleet & support equip.

DAILY ACTIVITY:

Frac stage #27
Plug Btm perf Top perf Max press Avg press Max Rate
11,398' 11,384' 11,233' 9,962# 9,304# 82.3
Avg Rate Clean bbls Slurry bbls 100 mesh 40/70 white
74.4 14,934 15,520 126,220# 323,260#
Gradient ISIP
0.919 5,146#
Stage 27 of 27 frac complete. Standby frac ops well 103.
RDMO Liberty Frac fleet & Frac support equipment

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Daily Drilling Report

BGT #	20180020	AREA	WOLFCAMP	WELL	MESQUITE #102H (3rd BS)
PROPOSAL	DRILL & COMPLETE A HORIZONTAL 3RD BONE SPRING WITH A 5000'+ LATERAL.				
AFE NUMBER	180201	START DATE :	3/30/2018	MIRU DATE :	6/5/2018
GROSS AFE :	\$8,036	RDMO DATE :		PROD Start DATE :	
				SPUD DATE :	6/13/2018
				FINALIZED DATE :	

DR DATE 09/25/2018

G-DC : \$119,955

G-CC : \$6,548,193

DR TD : 16,217

PBTD : 0

ONE LINER: Cont to RD frac equip. MIRU CTU, & Fesco HYD. MU BHA. RIH circ @ 1/2bpm. RIH tag plug #1 @ 11394' & drill out plugs 1 thru 20 @ 14832'. ST to 13500' sending sweeps.

DAILY ACTIVITY:

Continue RD Liberty frac equipment & Frac support equipment.
 Miru C&J 2 3/8" CTU, Fesco Hyd. Chokes, Tornado mixing plant.
 Weld on coil connect. Pull test to 35K. Hydro test to 3500#. OK.
 Mu BHA. Function test motor. OK. Nu riser. Hold safety meeting.
 Test riser and flowback iron to 8500#. OK. Open well. WP-3700#.
 Rih circulating @ 1/2 bpm. See BHA detail below.
 Open well RIH & Drill plugs 1-10
 RIH & Tagged plug #1 @ 11,394' CTM. Drilled out in 9.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #2 @ 11,575' CTM. Drilled out in 4.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #3 @ 11,754' CTM. Drilled out in 5.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #4 @ 11,938' CTM. Drilled out in 5.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #5 @ 12,119' CTM. Drilled out in 4.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #6 @ 12,302' CTM. Drilled out in 5.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #7 @ 12,505' CTM. Drilled out in 3.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #8 @ 12,667' CTM. Drilled out in 5.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #9 @ 12,845' CTM. Drilled out in 5.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #10 @ 13,029' CTM. Drilled out in 5.0 min.pumped 5 BBL sweep
 ST to 12,000' sending sweeps
 RIH & Tagged plug #11 @ 13,202' CTM. Drilled out in 7.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #12 @ 13,389' CTM. Drilled out in 5.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #13 @ 13,567' CTM. Drilled out in 4.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #14 @ 13,749' CTM. Drilled out in 5.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #15 @ 13,929' CTM. Drilled out in 9.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #16 @ 14,109' CTM. Drilled out in 3.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #17 @ 14,291' CTM. Drilled out in 5.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #18 @ 14,470' CTM. Drilled out in 3.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #19 @ 14,656' CTM. Drilled out in 9.0 min.pumped 5 BBL sweep
 RIH & Tagged plug #20 @ 14,832' CTM. Drilled out in 4.0 min.pumped 5 BBL sweep
 ST to 13,500' sending sweeps

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Daily Drilling Report

BGT # 20180020 AREA WOLFCAMP WELL MESQUITE #102H (3rd BS)

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

AFE NUMBER 180201 START DATE : 3/30/2018 MIRU DATE : 6/5/2018 SPUD DATE : 6/13/2018

GROSS AFE : \$8,036 RDMO DATE : PROD Start DATE : FINALIZED DATE :

DR DATE 09/26/2018

G-DC : \$91,125 G-CC : \$6,639,318 DR TD : 16,217 PBTD : 0

ONE LINER: ST to 13500' sending sweeps. RIH tag plug #21 @ 15001' & drill out plugs 21 thru 26 @ 15902'. POOH. SI well Rig off CTU.

DAILY ACTIVITY:

ST to 13,500' sending sweeps
RIH & Tagged plug #21 @ 15,001' CTM. Drilled out in 4.0 min.pumped 5 BBL sweep
RIH & Tagged plug #22 @ 15,185' CTM. Drilled out in 3.0 min.pumped 5 BBL sweep
RIH & Tagged plug #23 @ 15,371' CTM. Drilled out in 2.0 min.pumped 5 BBL sweep
RIH & Tagged plug #24 @ 15,551' CTM. Drilled out in 6.0 min.pumped 5 BBL sweep
RIH & Tagged plug #25 @ 15,694' CTM. Drilled out in 8.0 min.pumped 5 BBL sweep
RIH & Tagged plug #26 @ 15,902' CTM. Drilled out in 7.0 min.pumped 5 BBL sweep
RIH tagged Orio @ 16,078' CTM. P/U 15'. Pumped 20-10-20 BBl sweeps at 120 Visc.
Let sweeps exit coil then POOH at 30 FPM. No Drag. Send 20 BBL sweep mid lateral.
send 20-10 20 BBL sweep at heel. Pulled up through liner top and Run back in hole to
bottom of curve. Pumped 10 BBL sweep and POOH.
Shut well in and Rig off CTU. Tied into casing valve with pump. Tested lines to 8000#
Bull headed down casing 20 BBL sweep followed by 200 BBL's 2% KCL with Biocide.
8 BPM @ 4000#. Shut well in. Ready for E-line

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Daily Drilling Report

BGT # 20180020 **AREA** WOLFCAMP **WELL** MESQUITE #102H (3rd BS)

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

AFE NUMBER 180201 **START DATE :** 3/30/2018 **MIRU DATE :** 6/5/2018 **SPUD DATE :** 6/13/2018

GROSS AFE : \$8,036 **RDMO DATE :** **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 09/27/2018

G-DC : \$10,465 **G-CC :** \$6,649,783 **DR TD :** 16,217 **PBTD :** 0

ONE LINER: Standby CTU ops. Ready for Eline.

DAILY ACTIVITY: Stand by CTU Ops . Ready for Eline