
ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 **AREA** WOLFCAMP **WELL** HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 **START DATE :** 7/12/2018 **MIRU DATE :** 7/17/2018 **SPUD DATE :** 12/28/2018

GROSS AFE : **RDMO DATE :** 2/11/2019 **PROD Start DATE :** **FINALIZED DATE :**

DR DATE 03/10/2019

G-DC : \$8,061 **G-CC :** \$4,401,647 **DR TD :** 0 **PBTD :** 0

ONE LINER:

DAILY ACTIVITY:

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/11/2019

G-DC : \$27,170 G-CC : \$4,401,647 DR TD : 0 PBTD : 0

ONE LINER: Cont chg drill line to 8 lines. Unload work string. Ttl 452 jnts. MU RIH w/polishing mill. RIH PU & tallying WS. Tag TOL @ 10512'. Set dwn & dress off TOL. PU & rev circ 80 bbls. Rec OBM in returns. Start POOH w/tbg standing back in drk.

DAILY ACTIVITY:

Continue changing drill line to 8 lines. Unload 2 7/8" PH6 work string. Total of 452 jts. MU RIH w 5.71" polishing mill. RIH PU and tallying 2 7/8" PH6 workstring. Tag TOL @ 10,512'. RU Swivel and polish PBR for 30 mins. Set down and dress off TOL. PU and reverse circ. 80 bbls. Got back OBM in returns RD power swivel. Start POOH with tubing standing back in derrick.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/12/2019

G-DC : \$78,493 G-CC : \$4,480,140 DR TD : 16,060 PBTD : 15,926

ONE LINER: Fin POOH & LD polishing mill. PU & RIH w/ seal assy. Stung into PBR @ 10512' & test seals to 3500#. OK. Rev circ clean & rec 20 bbls OBM. TOH & LD WS & SA. RU csg crew & start RIH w/ seal assy & 5 1/2" csg.

DAILY ACTIVITY:

Finish POOH w/ polishing mill. LD same. Top indicator on mill wore off.
MU 5 1/2" x 20' dummy seal assembly & TIH.
Stung into PBR @ 10,512'. Test annulus to 3500#psi
f/30 minuets. Held ok. Test down tbh to 500#psi. Held ok
f/30 minutes. Pull seals out of PBR & reversed btms up.
Approximetly 20 bbls OBM in returns.
POOH LD 2 7/8" PH-6 workstring.
LD seal assymby. RD rig floor. Change out pipe rams to
5 1/2". RU rig floor. MIRU Express casing crew and torque
turn. Have saftey meeting with all personell on loc.
RIH w 5 1/2" x 20' seal assembly and 5 1/2" 23# P110
TTMRI casing. MU torque 17,200 ft-lbs.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/13/2019

G-DC : \$388,130 G-CC : \$4,868,270 DR TD : 16,060 PBTD : 15,926

ONE LINER: Cont RIH w/ Tieback csg, sting into PBR @ 10512', drop slips, land csg ND BOP. NU tbg head & frac valve, test. Pressure test csg to 8000# for 2 min & then began leaking.

DAILY ACTIVITY:

Continue RIH PU 5 1/2" tieback casing.
Tagged and stung into PBR @ 10,512'. Test annulus to 3500 psi for 30 min. Good test.
RD Express casing crew, torque turn, laydown machine.
Dropped slips and landed with 55k on PBR. Rough cut above bop. Start ND 11" 10M hyd BOPE.
Down to severe weather.
Finish ND 11" 10M hyd BOPE. Make cut on 5 1/2" casing
Install and NU 11" 10M x 7 1/16" 15M tbg head. NU 7 1/16" 15M frac valve. Install 7 1/16" plug in tbg hanger. NU night cap.
Shell test frac valve to 8K for 10 minutes. Good test.
ND night cap. Pull out plug. NU night cap again.
Pressure up on casing to 8000 psi. Pressure held for about 2 minutes and dropped off to 5500 psi. Also noticed a leak in long barrel part of the stem. Continuous small drip. Pump in at .75 bpm and pressure would not go passed 6300 psi.
Pressure on 7 5/8" x 5 1/2" annulus is 0 psi. Pressure dropped to 4700 psi in 1 hr. Stand By for hanger to retest frac valve.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/14/2019

G-DC : \$38,511 G-CC : \$4,906,781 DR TD : 16,060 PBTD : 15,926

ONE LINER: NU lubricator & set test plug in tbg head. Test frac valve to 250# & 14000#. Good test. Pull plug & ND lubricator. RU to test 5 1/2" casing, pump 30 bbls w/ max pressure 6600#. SI & fell to 4900# & stabilized. WO WL & WGRBP.

DAILY ACTIVITY:

Standby for 15k hanger w/ 2 way check and lubricator. SICP in 5 1/2" 4700 psi. SI 7 5/8" annulus 0 psi.
NU Cameron hyd lubricator and 15 k test plug. Equalize lub and and install plug in tbg head.
Bled 5 1/2" casing to 0 psi. Attempt to shell test frac valve. Pressure up to 8000 psi.
Broke back to 4700 psi. Changed test oumos. Test frav valve to 250 psi low for 15 min and 14,000 psi high for 30 min. Good test. SI 5 1/2" casing 0 psi. SI 7 5/8 annulus 0 psi.
Remove test plug. Close frac valve. ND lubricator. NU night cap. RDMO J4 pump.
RU WS low volume pump on 5 1/2" casing. Pump 30 bbls down 5 1/2" casing. Max pressure 6600 psi. Bleed down to 6000 psi in 3 min.
Monitor well for 6 hrs. Pressure bled to 4900#psi. & stablized.
Standby for wireline and WG retrievable bridge plug.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/15/2019

G-DC : \$91,073 G-CC : \$4,997,854 DR TD : 0 PBTD : 0

ONE LINER: Bled csg to 0#. RIH w/ GR/JB to 10660'. RIH & set WGRBP @ 10620'. Test csg to 9000#, good. RIH w/ braided line & retrieved WGRBP. Pumped toe prep w/ KCl & acid. Est 12 BPM & 9200#. RIH w/ plug & guns for 1st stage frac.

DAILY ACTIVITY:

SICP 4500 psi. 7 5/8" annulus 0 psi. Bled 5 1/2" casing to 0 psi w/ 5.4 BBLs. RU KLX wireline.
Test lubricator to 4000 psi. RIH w/4.5" GR/JB basket to 10,660'. POOH. RIH w/5.5"WGRBP.Set plug @ 10,620' ELM. POOH. RU Test pump w/ chart recorder. Pressure 5 1/2" casing to 9000 psi. Held 9000 psi for 30 min.Good Test
LD lubricator. Change out WL greasehead for slickline greasehead. RIH w/ retrieving head for WGRBP. Set down at 10,620'. Jarred WGRBP free. and POOH
LD WGRBP, LD lubricator and RDMO Axio slickline unit.
RU FESCO pumps. Test lines to 11000#. Walked pressure up to 8500# at 1.5 BPM. Increased pressure to 9000# @ 2 BPM pressure climbed to 9800#. Set kick outs to 11,000#. Walked rate to 3 BPM @ 10,200. Established 3 BPM rate w/pressures fluctuating between 10200# to 8900#
Pumped 176 BBLs KCL/biocide & started 1000 gal 15% HCL. Pressure dropped to 8300# when acid hit after 337 BBLs
Displaced w/ 400 BBLs KCL/Biocide @ 12 BPM @ 9200#. ISIP 8500#, 5 min. ISIP 4900#.
RIH w/Innovex plug for 5 1/2" 23# csg. & 6 clusters 3 1/8" 90 deg phase 4SPF. @ report time

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

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GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/16/2019

G-DC : \$30,895 G-CC : \$5,103,149 DR TD : 0 PBTD : 0

ONE LINER: RIH Plug & guns to perf #1 stg. Tag high @ 15810'. Tool string hung up but came free. POOH w/plug & perf tool string & RD Eline. RD W/O rig.

DAILY ACTIVITY:

RIH Plug & Perf TOE (#1) stage w/ Innovex Frac plug for 5 1/2" csg,
6 clusters 3 1/8" guns. Tagged high @ 15,810'. Tool string hung up
sticky but came free.
POOH w/ Plug & Perf tool string & RD KLX Eline
RD Forbes WO Rig

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

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GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/17/2019

G-DC : \$11,311 G-CC : \$5,103,149 DR TD : 0 PBTD : 0

ONE LINER: NU Fesco Frac tree. Test to 250# & 14500#. Good. Legacy fin up w/ laying water lines.

DAILY ACTIVITY:

NU FESCO Frac tree. Test 250# low/14500# high. Charted. Good test
Cisco Loading sand to silos.
Legacy finishing up w/ laying water lines.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/18/2019

G-DC : \$63,089 G-CC : \$5,103,149 DR TD : 0 PBTD : 0

ONE LINER: Start RU ProFrac Fleet. Test water transfer lines 100 BPM rate, good test, fill frac tanks. Add 180 bbls to each acid tank.

DAILY ACTIVITY:

RU ProFrac Frac Fleet

Test water Transfer lines, Fill Frac tanks. Add 180 BBLs to each Acid tank
100 BPM rate test on water transfer lines. Good test.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMD DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/19/2019

G-DC : \$70,447 G-CC : \$5,173,596 DR TD : 16,062 PBTD : 0

ONE LINER: RU ProFrac Fleet & frac support equip. Testing lines & fixing leaks @ RT. Water transfer lines & rates tested. Lines checked & leaks repaired. Rate checked @ 100 bpm, good test.

DAILY ACTIVITY: RU ProFrac Fleet & Frac support equipment
Pro Frac testing lines & fixing leaks @ report time.
Water Transfer lines & rates tested. Lines checeked and leaks repaired.
Rate checked @ 100 BPM, good test.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMD DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/20/2019

G-DC : \$64,158 G-CC : \$5,237,754 DR TD : 16,062 PBTD : 0

ONE LINER: Pressure test. PI @ 8 BPM & 7800#, pump acid, pressure out w/ 338 bbls pumped. Flow back & went to 0#. PI @ 1 BPM. Con't attp to pump in but pressure out. MIRU CTU.

DAILY ACTIVITY:

Pressure test chasing leaks. Problems w/ chemical pumps.
Open well for Frac & start sweep. Established 8 BPM rate @ 7800# & at 50 BBLs away started 15% HCL. Pumped 338 BBLs total and an increased rate of 14 BPM @ 9500# pressured spiked to 10,500#. SD pumps
Opened well to flowback. Well at 0# after getting back 12 BBLs
Frac attempted to get back into well pumping an additional 112 BBLs @ less than 1 BPM @ 9600#. Open well to Flow back & after 18 BBLs 0#.
Called for CTU & tools and TCP @ 2400hrs. Frac continued to establish a satisfactory rate. While waiting for CTU.
Max rate 8 BPM, Max psi 10500# w/ each attempt resulting in decreased rate and increased pressure. Total BBLs pumped 781 BBLs
MIRY 2 3/8" ProCoil CTU

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/21/2019

G-DC : \$89,641 G-CC : \$5,327,395 DR TD : 16,062 PBTD : 0

ONE LINER: MIRU CTU, MU bit & TIH. Tag FC @ 16006'. TOH. RIH w/coil & TCP assy. Perf stg #1 @ 15797' to 15904'. POOH w/TCP assy, @ 7900' @ RT.

DAILY ACTIVITY:

MIRU ProCoil 2 3/8" CTU. MU Innovex clean out BHA. (see detail below)
Install External slip type connector tost 30,000# pull. Test Innovex tools.Stab
Frac tree & test riser 250# low & 8000# high.
Made up BHA as follows. 3.08" dual flapper, 3.11" Bi-Dir Jar, 3.11" Hyd disconnect,
3.12" Aggitator, 3.09" Filter sub, 3.12" 5/6 motor, 3.13" bit sub, 4-1/2" varel rock bit.
RIH w/ coil & Innovex BHA till tag float collar @ 16,006' CTM (+35' correction)
POOH with mill assembly.
LD mill BHA and PU BHA #2 as follows. 3.08" dual flapper, 3.11" Hyd dicconnect,
3.11" 2-3/8" box x pin X-over, 2.88" 2-3/8" box x 8rd EUE X-over,
3.125" 6 cluster 4spf 90deg perf gun, 3.125" bull plug.
RIH w/ coil & TCP assembly to 15,960' CTM. Drop and displace 5/8" ball
Perf Stage #1. Perf 15,904', 15,883', 15,861', 15,840', 15,818', 15,797'
POOH with TCP assembly to 7900'.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/22/2019

G-DC : \$354,448 G-CC : \$5,681,843 DR TD : 16,062 PBTD : 0

ONE LINER: RDMO CTU. NU Eline BOP's, RU Eline & frac support equip. Frac stg #1. Perf stg #1. Beg frac stg #2. High pressure leak on frac manifold. Disp sand. Repair manifold.

DAILY ACTIVITY:

ND CTU BOPs, Break off TCP guns all shots fired, blow down CTU reel.
RDMO Pro Coil 2 3/8" CTU
NU Eline BOPS, RU eline and Frac support equipment.
Test backside relief valve, pressure up backside to 3000#.
Electronic problems w/ Pro Frac command center.
Frac Stage #1
Plug Btm perf Top perf Max press Avg press Max Rate
NA 15,926' 15,797' 10,837 10,036' 89.8
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
81.9 12,347 12,382 405,000
Gradient 0.88 ISIP- 4,959
Pressure test pump down lines and lubricator to 10,000#.
RIH Perf Stage #2. Set Plug @ 15,754'. Perf 15,767', 15,745', 15,724'
15,702', 15,681', 15,659', 15,637'. Pump Down Volume 223 bbls
Begin Frac Stage #2. High pressure leak on Pro Frac, frac manifold.
SD 2/3 thru stg#2
Use pump down pumps to displace sand in wellbore pumped 395 bbls @ 15 bpm
Repair lateral on frac manifold.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

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GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/23/2019

G-DC : \$350,763 G-CC : \$6,764,928 DR TD : 16,062 PBTD : 0

ONE LINER: Repair frac manifold. Frac stg #2. Perf stg #3. Frac stg #3. Perf stg #4. Frac stg #4. Perf stg #5.

DAILY ACTIVITY:

Repair Pro Frac frac manifold
Frac Stage #2
Plug Btm perf Top perf Max press Avg press Max Rate
15,777' 15,767' 15,637' 10,917 10,361 93.9
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
87.6 12,526 12,487 404,720 0
Gradient 0.90 ISIP- ,5,174
RIH Perf Stage #3. Set Plug @ 15,617'. Perf 15,607', 15,586', 15,564'
15,543', 15,521', 15,500', 15,478'. Pump Down Volume 205 bbls
Frac Stage #3
Plug Btm perf Top perf Max press Avg press Max Rate
15,617' 15,607' 15,478' 11,002 10,388 94.4
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
88.4 14,662 14,685 404,780
Gradient 0.84 ISIP- 4,458
RIH with stg 4 guns and plug. Plug did not fire. POOH rehead and PU new guns.
RIH Perf Stage #3. Set Plug @ 15,458'. Perf 15,448', 15,427', 15,405'
15,383', 15,362', 15,340', 15,319'. Pump Down Volume 381 bbls
Frac Stage #4
Plug Btm perf Top perf Max press Avg press Max Rate
15,458' 15,448' 15,319' 11,053 9,924 97.9
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
77.0 12,897 12,923 410,480
Gradient 0.94 ISIP- 4,683
RIH Perf Stage #5. Set Plug @ 15,299'. Perf 15,289', 15,267', 15,246'
15,224', 15,203', 15,181', 15,160'. Pump Down Volume 190 bbls

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

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PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/24/2019

G-DC : \$329,270 G-CC : \$6,764,928 DR TD : 16,062 PBTD : 0

ONE LINER: POOH stg #5. Frac stg #5. Perf stg #6. Frac stg #6. Perf stg #7. Frac stg #7. RIH plug & perf stg #8 @ RT.

DAILY ACTIVITY:

POOH Stg. #5. Grease Frac Tree.
Frac Stage #5
Plug Btm perf Top perf Max press Avg press Max Rate
15,458' 15,448' 15,319 11,151 10,207 99.5
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
89.3 11,111 11,813 411,000 0
Gradient 0.80 ISIP- 4,792
RIH Perf Stage #6. Set Plug @ 15,140'. Perf 15,130', 15,108', 15,086'
15,065', 15,043', 15,022', 15,000'. PDV-163
Started Frac Stg #6. Blender broke down. Change out blender
Frac Stage #6
Plug Btm perf Top perf Max press Avg press Max Rate
15,140' 15,130' 15,000' 11,057 10,309 91.4
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
80.0 13,718 13,742 412,880
Gradient 0.87 ISIP- 4,871
RIH Perf Stage #7. Set Plug @ 14,980'. Perf 14,970', 14,949', 14,927'
14,906', 14,884', 14,862', 14,841'. PDV-167 bbls
Frac Stage #7
Plug Btm perf Top perf Max press Avg press Max Rate
14,980' 14,970' 14,862' 11,030 10,574 101.6
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
89.1 10,629 10,358 414,500 0
Gradient 0.92 ISIP- 5,413
RIH plug & perf Stg. # 8 @ report time

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

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PROPOSAL					
AFE NUMBER	180701	START DATE :	7/12/2018	MIRU DATE :	7/17/2018
		SPUD DATE :	12/28/2018		
GROSS AFE :		RDMO DATE :	2/11/2019	PROD Start DATE :	
				FINALIZED DATE :	

DR DATE 03/25/2019

G-DC : \$403,052 G-CC : \$6,764,928 DR TD : 16,062 PBTD : 0

ONE LINER: Perf stg # 8. Frac stg #8. Perf stg #9. Frac stg #9. Perf stg #10. Frac stg #10. Perf stg #11. Frac stg #11. Perf stg #12. Beg frac stg #12 @ RT.

DAILY ACTIVITY:

RIH Perf Stage #8. Set Plug @ 14,821'. Perf 14,811', 14,789', 14,768'
14,746',14,725', 14,703', 14,682'. PDV-163 bbls
Frac Stage #8
Plug Btm perf Top perf Max press Avg press Max Rate
14,821' 14,811' 14,682' 11,074 10,427 94.4
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
87.6 10,804 10,784 410,000 0
Gradient 0.92 ISIP- 5,413
RIH Perf Stage #9. Set Plug @ 14,662'. Perf 14,652', 14,630', 14,609'
14,587',14,565', 14,544', 14,522'. PDV-134 bbls
Frac Stage #9
Plug Btm perf Top perf Max press Avg press Max Rate
14,662' 14,652' 14,522' 11,028 10,344 93.8
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
85.7 9,857 9,823 413,340 0
Gradient 0.92 ISIP- 5,413
RIH Perf Stage #10. Set Plug @ 14,502'. Perf 14,492', 14,471', 14,449'
14,428',14,406', 14,385', 14,363'. PDV-135 bbls
Frac Stage #10
Plug Btm perf Top perf Max press Avg press Max Rate
14,502' 14,492' 14,363' 11,021 10,520 96.6
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
91.0 11,209 11,344 409,000
Gradient 0.89 ISIP- 5,050
RIH Perf Stage #11. Set Plug @ 14,343'. Perf 14,333', 14,311', 14,290'
14,268',14,247', 14,225', 14,204'. PDV-156 bbls
Remainder of report on Page #2Frac Stage #11
Plug Btm perf Top perf Max press Avg press Max Rate
14,343' 14,333' 14,204' 11,047 10,564 105.4
Avg Rate Clean bbls Slurry bbls 100 mesh 100 Mesh White
99.1 10,315 10,471 409,350 0
Gradient 0.85 ISIP- 5,198
RIH Perf Stage #12. Set Plug @ 14,184'. Perf 14,174', 14,152', 14,131'
14,109',14,088', 14,066', 14,044'. PDV-144 bbls
Begin to Frac Stage #12

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

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PROPOSAL					
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GROSS AFE :		RDMO DATE :	2/11/2019	PROD Start DATE :	
				FINALIZED DATE :	

DR DATE	03/26/2019
G-DC :	\$310,616
G-CC :	\$7,075,544
DR TD :	16,062
PBTD :	0

ONE LINER: Frac stg #12. Perf stg #13. Frac stg #13. Perf stg #14. Frac stg #14. Perf stg #15. Beg frac stg #15. SI due to surf sand issues & surf leaks.

DAILY ACTIVITY:

Frac Stage #12					
Plug	Btm perf	Top perf	Max press	Avg press	Max Rate
14,184'	14,174'	14,044'	11,063	10,589	102.7
Avg Rate	Clean bbls	Slurry bbls	100 mesh	100 Mesh White	
90.2	10,510	10,635	413,000	0	
Gradient	0.94	ISIP- 5,603			
RIH Perf Stage #13. Set Plug @ 14,024'. Perf 14,014', 13,993', 13,971'					
13,950',13,928', 13,907', 13,885'. PDV-114 bbls					
Frac Stage #13, Data van server problems; displaced Acid w/ FESCO					
Frac Stage #13 halfway thru frac Pro Frac had densiometer failure					
Trouble shooting densiometer problems					
Frac Stage #13					
Plug	Btm perf	Top perf	Max press	Avg press	Max Rate
14,024'	14,014'	14,044'	11,195	10,038	98.1
Avg Rate	Clean bbls	Slurry bbls	100 mesh	100 Mesh White	
89.9	11,515	11,629	409,440		
Gradient	0.93	ISIP- 5,486			
RIH Perf Stage #14. Set Plug @ 13,865'. Perf 13,855', 13,834', 13,812'					
13,790',13,769', 13,747', 13,726'. PDV-132 bbls					
Frac Stage #14					
Plug	Btm perf	Top perf	Max press	Avg press	Max Rate
13,865'	13,855'	13,726'	11,409	10,521	106.1
Avg Rate	Clean bbls	Slurry bbls	100 mesh	100 Mesh White	
91.5	11,560	11,692	410,800		
Gradient	0.87	ISIP- 5,132			
RIH Perf Stage #15. Set Plug @ 13,706'. Perf 13,696', 13,674', 13,653'					
13,631',13,610', 13,588', 13,567'. PDV-115 bbls					
Begin Stage #15 Frac. Shut in due to surface sand issues and surface leaks.					

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ►18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/27/2019

G-DC : \$53,465 G-CC : \$7,129,009 DR TD : 16,062 PBTD : 0

ONE LINER: Bled 7 5/8" to 0#. In 30 min inc to same as 5 1/2". Press 7 5/8" to 5000# & held. WL set RBP @ 10380'. Bled 5 1/2" to 0# & then press to 9000#. Bled 7 5/8" to 800# & then it inc back up to 4500#. Pull RBP. WL set RBP below TOL & bled both csg to 0#.

DAILY ACTIVITY:

Bled surface 7/58" cas. to 0# & SI. Surface csg pressure increased in 30 min. to equal 5 1/2" frac string. Pressured up 7 5/8" csg. to 5000# and pressure held for over 6 hr. Ordered Baker WGRBP for 5 1/2" 23# csg. RIH w/ WGRBP@ sat @ 10,380'. 140' above liner top. Bled 5 1/2" csg to 0#. 7 5/8" csg dropped from 5100# to 4620# & held steady. Pressure test 5 1/2" csg to 9000#. Holding. Bled off 7-5/8" csg to 800# and started climbing to 4500# MIRU Braided line unit. RIH with pulling tool and retrieve WGRBP plug. Rig down Braided line unit. Make up 2nd WGRBP and RIH and set at 10,670' ELM, 158' below liner top. Bled 5 1/2" csg to 0#. POOH with Eline setting tool. Monitor 5 1/2" csg pressure remaind zero. Bled 7 5/8" from 3250# to 0#. Holding

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMD DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/28/2019

G-DC : \$175,335 G-CC : \$7,304,344 DR TD : 16,062 PBTD : 0

ONE LINER: RD & release frac & frac support serv. ND frac tree. MIRU W/O rig. ND frac valve & tbh head. MU 5 1/2" csg spear, spear csg & pull slips. NU & test BOPE. PU csg spear & stab into csg & work seals out of PBR.

DAILY ACTIVITY:

Begin to rig down frac crew and release all frac support services. ND rental frac tree to 7 1/16" manual valve
MIRU Forbes #177 24hr workover rig.
ND 7 1/16" frac valve and 11" 10M x 7 1/16" 15M tbh head. Weld slips to 5 1/2" casing.
MU 5 1/2" 23# casing spear. Spear casing. PU to 120K and remove bowl and slips and stacked out casing
NU 11" 10K BOPE. RU Floor and test BOP to 250# low and 9000#. Held ok.
PU 5 1/2" 23# casing spear and stab into casing. PU and worked pipe up to 220K and seals free from PBR
lay down landing joint and spear.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/29/2019

G-DC : \$53,711 G-CC : \$7,358,055 DR TD : 16,062 PBTD : 0

ONE LINER: POOH LD 253 jnts of 5 1/2" csg. Insp & LD PBR seal assy, found seals had a groove down 3 of 4 and the top seals were worst & frac sand in ring groove recess. Load out 5 1/2" csg. Chg pipe rams from 5 1/2" to 3 1/2".

DAILY ACTIVITY:

POOH laying down 253 joints of 5 1/2" 23# casing.
Inspect and lay down PBR seal assembly.
Lowest set of seals showed minimal visual damage. Seals sets 2, 3 and 4 showed a groove in line with each other. Seal assembly 4 showed the worst damage and was missing dime size section of rubber.
Frac sand was present in the ring groove recess on seal sets 2, 3 and 4.
Showing evidence of communication in the PBR during frac.
Load out 5 1/2" casing to thread/pipe inspection facility
Change pipe rams from 5 1/2" to 3 1/2" rams and function test
Adjust pipe racks in preparation of 3 1/2" drill pipe and PBR polish assembly.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/30/2019

G-DC : \$35,168 G-CC : \$7,729,815 DR TD : 16,062 PBTD : 0

ONE LINER: Unload & tally drill pipe. MU & RIH w/ 5.75" polish mill & 3 ½" DP. Tag TOL @ 10512'. Polish PBR. Start POOH w/ drill pipe. LD 1st 3 jnts.

DAILY ACTIVITY:

Unload and tally 3-1/2" drill pipe. Total of 355 joints. Casing crew rig up tongs
MU and RIH with 5.75" polishing mill. Tag TOL @ 10,512' pipe measurement.
RU power swivel and polish PBR for 30 min.
PU 2' from bottom and reverse circulate 150 bbls.
POOH with 3-1/2 drill pipe. Lay down first 3 joints and begin standing back remainder.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 03/31/2019

G-DC : \$36,150 G-CC : \$7,729,815 DR TD : 16,062 PBTD : 0

ONE LINER: POOH. LD & insp polishing mill. PU & RIH w/ seal assy & liner hanger packer w/ 20' PBR. Sting into PBR & Test PBR & new seal assy, good. Set liner hanger packer @ 10486'. Start POOH & LD 3 1/2" DP.

DAILY ACTIVITY:

POOH standing back 3-1/2" drill pipe. Lay down and inspect polishing mill. Mill had good wear indicators on the top out mill and heavy scratches on the polishing mill, indicating good polish action of original PBR. PU and RIH with 20' 5-3/4" seal assembly with 5-1/2" mechanical set liner hanger packer and new 20' PBR. RD tongs, RU power swivel and sting new scab liner assembly into existing 20' PBR. Perform 3500 psi 30 min test to existing PBR and new seal assembly by pressuring up on annulus. Test good. Set down 70,000# to activate mechanical set hanger packer. Pressure up on tubing to 3500 psi for 30 min to test void between existing PBR/liner hanger and new scab liner assembly. Test good. PU to neutral weight on work string and test the annulus to 3500 psi for 30 min to test new PBR. Test good. New TOL @ 10,486' POOH lay down 3-1/2 drill pipe.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMD DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/01/2019

G-DC : \$300,442 G-CC : \$7,729,815 DR TD : 16,062 PBTD : 0

ONE LINER: Finish POOH LD 3 1/2" DP work string. LD liner hanger tool. Chg out BOP rams. MIRU csg crew. RIH w/ 5 1/2" seal assy. 166 jnts/ 6921' csg run in hole @ report time.

DAILY ACTIVITY:

POOH laying down 3-1/2" drill pipe work string. Lay down liner hanger tool
Change out BOP rams from 3-1/2" to 5-1/2". Clean drift and tally new
5-1/2" 23# P-110HC frac string. MIRU Express casing crew and torque turn.
Have safety meeting with all personel on location.
RIH w 5 1/2" x 20' seal assembly and 5 1/2" 23# P110
TTSRI casing. MU torque 17,200 ft-lbs.
166 joints / 6,921' of casing run in hole

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMD DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/02/2019

G-DC : \$98,145 G-CC : \$7,827,960 DR TD : 16,062 PBTD : 0

ONE LINER: Cont to RIH w/ 5 1/2" Frac string. 251 jnts ttl. Tag top of PBR @ 10486' & Att to sting in, work pipe but can't sting in, keep tagging @ same depth. Start TOH & LD frac string, 148 of 251 jts LD @ report time.

DAILY ACTIVITY:

Continue to RIH with 5-1/2" 23# P-110 HC Frac string. 251 total joints
Tag top of PBR @ 10,486'. Attempt to sting into liner top and kept
setting down. Started pumping down annulus and had instant circulation
at 0 psi. Worked pipe 30' and continued to sit down @ 10,486'. Establish
circulation down 5-1/2" casing and attempt to wash into liner top several times.
Sat down at same depth and saw no change in pump pressure. Make 9 more
attempts to enter the liner top. Each time working the pipe and rotating
quarter turn to try to get mule shoe of seal assembly to enter PBR.
No change in tag up depth.
POOH laying down 5-1/2" frac string with the supervision of thread
representatives. 148 of 251 joints layed down at report time. 4 joints
identified as bad and laid down seperately.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMD DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/03/2019

G-DC : \$74,175 G-CC : \$7,902,135 DR TD : 16,062 PBTD : 0

ONE LINER: Cont TOH & LD 5 1/2" csg & seal assy. Thread rep visually insp & showed only 6 bad jts. MU & RIH w/ polishing mill assy on 2 7/8" WS. Polish mill didn't seen anything going in but top of PBR was rough, smoothed off & start TOH.

DAILY ACTIVITY:

Continue laying down 5-1/2" 23# P-110HC tie back string.
Lay down seal bore assembly. Mule shoe showed signs of damage on inside and outside of the bottom of the shoe assembly from contact with top of PBR during run attempt. RD casing crew and move all 5-1/2" tie back string to racks on side of location. Per visual inspection by thread reps 246 joints good and 6 joints bad.
Rack and tally 355 joints 2-7/8" PH-6 work string. Change out rams to 2-7/8". MU and RIH with Innovex 5.71" x 20' polishing mill assembly and 329 jts of 2-7/8" PH-6 workstring.
RU power swivel and stripper rubber. Tag top of PBR @ 10,485'. Did not see top of liner with 5.71" wiper blades at bottom of polishing mill. Rotate and polish top of liner until torque dropped from 1500 ft-lbs to less than 1000 ft lbs. Reverse circulate 2 bottoms up.
RD power swivel and begin to POOH with 2-7/8" work string.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/04/2019

G-DC : \$38,845 G-CC : \$7,940,980 DR TD : 16,062 PBTD : 0

ONE LINER: Cont POOH w/polishing mill. LD mill. PU 5.688" tapered mill & RIH. Tag (TOL) @ 10496'. Mill 15 mins & smooth up, RIH to 10515' (btm of PBR). Work thru PBR. Rev circ BU. POOH. LD tapered mill. PU Polishing mill assy & TIH

DAILY ACTIVITY:

Continue POOH with polishing mill while standing back 2-7/8" work string. Lay down mill and identified wear only to be on bottom 4" of polishing mill. Polishing mill blades OD was reduced from 5.71" to 5.688" at the bottom. This indicated the mill did not top out on the PBR.
Verified IDs of PBR with Innovex.
PU Yellowjacket 5.688" tapered mill assembly and RIH.
Tagged restriction at 10,496' pipe measurements and RU power swivel.
Milled 15 mins and fell thru. RIH to 10,515' pipe measurement. Worked thru PBR several times seeing no further restriction. Reverse circulate bottoms up and RD power swivel.
POOH standing back 2-7/8" work string. LD tapered mill and inspected.
Mill had minimal scratches at maximum OD of taper.
PU Innovex Polishing Mill assembly and TIH.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/05/2019

G-DC : \$62,780 G-CC : \$8,003,760 DR TD : 16,062 PBTD : 0

ONE LINER: RU swivel. Tag tight spot @ 10496' & mill till smooth & RIH to 10515' & mill top of PBR w/ top mill. POOH. PU & RIH w/ dummy SA, stung into PBR & pressure test good. POOH, seals looked good. Switch out BOP. RU csg crew.

DAILY ACTIVITY:

RU power swivel and stripper rubber. Tag tight spot with polishing mill @ 10,496'. Mill on tight spot for 15 min and polishing mill fell thru. Continue in hole to 10,515'. Top out mill sitting on top of PBR @ 10,495' tubing measurment. Mill with top out mill till torque 2500 ft-lbs to less than 1000 ft-lbs. Reverse circulate out two times tubing volume and RD power swivel. POOH standing back 2-7/8" work string. LD polishing mill. Top out portion of mill showed wear indicating good mill action on PBR top. PU and RIH with 5-1/2" x 20' dummy seal assembly on 2-7/8" workstring. Sting dummy seals into PBR top at 10,495' without any issues. Continue into PBR till 10,515'. Set 10,000# down and perform annular test to 3500 psi for 30 min test good. Slack off to 30,000# and test tubing to 1000 psi test good. POOH laying down 2-7/8" work string. Lay down 5-1/2" x 20' dummy seal assembly. Seals looked good. Switch out BOP rams from 2-7/8" to 5-1/2". Drift and tally 5-1/2" casing RU casing crew and torque turn.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/07/2019

G-DC : \$29,124 G-CC : \$8,172,204 DR TD : 16,062 PBTD : 0

ONE LINER: Test tbh head, good. NU lower frac valve, bonnet leaking. NU new lower frac valve, test to 14,000#, good. Test 5 1/2" casing To 9000#, good. NU BOP.

DAILY ACTIVITY:

Test Cameron 11" 10M x 7 1/16" 15M tbh head to 10K for 30 min. Test good
Install 7-1/16" 15K lower frac valve. Pressure up to 500 psi test bonnet leaking.
Stand by waiting for arrival of new frac valve. Move 2-7/8" PH6 work string onto pipe racks and tally.
NU new 7-1/16" 15K frac valve. Begin pressure test, trouble shoot test pump fittings and chart recorder. Recorder not moving.
Order out new chart recorder and wait for arrival to install.
Pressure test 7-1/16" 15K frac valve. 250 psi for 30 min low and 14,000 psi for 30 min high. Tests good.
Load and pressure up on 5-1/2" 23# P-110 frac string. Build pressure to 6500 psi and pack off failed in test pump. Order out new test pump rig.
Connect new test truck and pressure test frac string to 9000 psi for 30 min.
NU 5K rig provided BOP equipment and begin pressure test.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/08/2019

G-DC : \$37,010 G-CC : \$8,172,204 DR TD : 16,052 PBTD : 0

ONE LINER: Test BOP, good. PU & RIH w/ retrieving head & 2 7/8" workstring, wash sand off top of RBP @ 10615', latch & release RBP. TOH & LD RBP. MU mule shoe washing assy & TIH w/ 2 7/8" workstring. Wash down to 2nd RBP @ 10697'.

DAILY ACTIVITY:

Change out ring gasket on BOPs. Attempt to test blinds on BOPS.
Test pump leaking. RD Monahans tester. Test blind & pipe rams to 3500 psi for 30 min with rig pump.
MU WGRP retrieving tool and PU 2-7/8" work string and RIH.
RU power swivel amd stripper rubber. Tagged sand @ 10,590'.
Reverse circulate bottoms up and wash sand to top of WG plug @ 10,615' tubing measurement. PU and release plug.
POOH standing back 2-7/8" work string. Last two joints full of sand.
Lay down WG plug and retrieving tool.
MU 4.5" x 7' mule shoe washing assembly and RIH with 2-7/8" work string.

Tag sand @ 10,695' tubing measurement. Wash to 10,697'.
Reverse circulate 250 bbls on top of lower WG plug.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/09/2019

G-DC : \$73,127 G-CC : \$8,245,331 DR TD : 16,062 PBTD : 0

ONE LINER: Circ clean on top of RBP. TOH & LD workstring. ND BOP, NU 15k frac tree, test tree to 14,000#, good test. RU Braided Line truck & TIH w/ RBP retrieving tool. Tag RBP & equalize pressure. Wait 20 min. Start POOH w/ RBP.

DAILY ACTIVITY:

Circulate @ top of WGRBP @ 10,695'. Pump 10 bbl gel sweep, 30 bbl spacer and 20 bbl gel sweep. Reverse circulate hole clean 700 bbls total circulation.
POOH laying down 2-7/8" PH-6 workstring and baker mule shoe wash assembly. Load hole as POOH.
Close 7-1/16" frac valve. ND BOPs and adapter spool. NU Fesco 15K frac tree. Shell test frac tree to 250 psi for 30 min. Test good. Shell test frac tree to 14,000 psi for 30 min. Test good. Close hydraulic valves and test to 14,000 psi for 30 min. Test good.
MIRU Braided line unit. NU lubricator and pick up Baker WG retrieving tool. Test lubricator to 4500 psi. Test good.
RIH with retrieving tool on braided line. Stop @ 10,600' and pressure up on well to 4500 psi. TIH with tools and tag up at 10,665' braided line measurement. Equilize WGRBP pressure dropped from 4500 psi to 3100 psi. PU 15' weight indicator went from 1800# before to 2010# after. Wait 20 min for RBP to relax.
POOH with braided line and RBP.

ABRAXAS PETROLEUM CORPORATION

Daily Drilling Report

BGT # 20190023 AREA WOLFCAMP WELL HACKBERRY 11 #201H (A1) ► 18/19

PROPOSAL

AFE NUMBER 180701 START DATE : 7/12/2018 MIRU DATE : 7/17/2018 SPUD DATE : 12/28/2018

GROSS AFE : RDMO DATE : 2/11/2019 PROD Start DATE : FINALIZED DATE :

DR DATE 04/10/2019

G-DC : \$54,950 G-CC : \$8,300,281 DR TD : 16,062 PBTD : 0

ONE LINER: Well shut in - SICP 3100 PSI. POOH w/ bradied line and WGRBP. LD plug and Baker release assembly. ND lubricator and NU night cap. RDMO cc Forbes 177. Send in rental 2 7/8" workstring, pipe racks, rental BOP quip. Clean up loc.

DAILY ACTIVITY:

POOH with bradied line and WGRBP. Lay down plug and Baker release assembly.
ND lubricator and NU night cap.
RDMO CC Forbes 177. Send in rental 2-7/8" workstring, pipe racks,
rental BOP equipment, send in 13 joints of 5-1/2" 23# P-110 casing
(6 good joints and 7 damaged joints.)
Clean up location and move remaingn rental equipment to back of location.
All valves closed on frac tree and SICP is 3100 psi.