



RAILROAD COMMISSION OF TEXAS

Form G-1

1701 N. Congress  
P.O. Box 12967  
Austin, Texas 78701-2967

Status: Submitted  
Date: 02/14/2018  
Tracking No.: 185206

GAS WELL BACK PRESSURE TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG

OPERATOR INFORMATION			
Operator Name: BP AMERICA PRODUCTION COMPANY		Operator No.: 040798	
Operator Address: ATTN JEANINE HALLER-PISKURICH 737 NORTH ELDRIDGE PARKWAY HOUSTON, TX 77079-0000			

WELL INFORMATION			
API No.: 42-005-30409		County: ANGELINA	
Well No.: 1H		RRC District No.: 06	
Lease Name: SABER GAS UNIT		Field Name: CARTHAGE (HAYNESVILLE SHALE)	
RRC Gas ID No.:		Field No.: 16032300	
Location: Section: ,Block: , Survey: FENNER, R, Abstract: 725			
Latitude:		Longitude:	
This well is located 7.3 miles in a N direction from HUNTINGTON, which is the nearest town in the county.			

FILING INFORMATION			
Purpose of filing: Initial Potential			
Type of completion: New Well			
Well Type: Producing		Completion or Recompletion Date: 12/14/2017	
Type of Permit		Date	Permit No.
Permit to Drill, Plug Back, or Deepen		02/22/2017	822561
Rule 37 Exception			
Fluid Injection Permit			
O&G Waste Disposal Permit			
Other:			

COMPLETION INFORMATION			
Spud date: 03/19/2017		Date of first production after rig released: 12/14/2017	
Date plug back, deepening, recompletion, or drilling operation commenced: 03/19/2017		Date plug back, deepening, recompletion, or drilling operation ended: 12/14/2017	
Number of producing wells on this lease in this field (reservoir) including this well: 2		Distance to nearest well in lease & reservoir (ft.): 0.0	
Total number of acres in lease: 960.00		Elevation (ft.): 307 GL	
Total depth TVD (ft.): 16299		Total depth MD (ft.): 23275	
Plug back depth TVD (ft.):		Plug back depth MD (ft.):	
Was directional survey made other than inclination (Form W-12)? Yes		Rotation time within surface casing (hours): 352.0	
Recompletion or reclass? No		Is Cementing Affidavit (Form W-15) attached? Yes	
Type(s) of electric or other log(s) run: Gamma Ray (MWD)		Multiple completion? No	
Electric Log Other Description:			
Location of well, relative to nearest lease boundaries of lease on which this well is located:		Off Lease: No	
164.0 Feet from the South Line and			
6626.0 Feet from the West Line of the			
		SABER GAS UNIT Lease.	

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.			
Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type

G1: N/A  
PACKET: N/A

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:		
GAU Groundwater Protection Determination	Depth (ft.): 1900.0	Date: 02/23/2017
SWR 13 Exception	Depth (ft.): 4350.0	

GAS MEASUREMENT DATA										
Date of test: 01/13/2018					Gas measurement method(s):					
Gas production during test (MCF): 39957					Orifice Meter, Flange Taps					
Was the well preflowed for 48 hours? Yes										
Run No.	Line size	Orif. or Choke Size (in.)	24 hr. Coeff. Orif. Or Choke (in.)	Static Pm or Choke (in.)	Diff (hw)	Flow Temp (°F)	Temp. (Ftf)	Gravity (Fg)	Compress (Fpv)	Volume (MCF/day)
1	3.826	2.375	39008.44	1117.0	96.2	92.0	0.9706	1.0028	1.070	13319.0

FIELD DATA AND PRESSURE CALCULATIONS				
Gravity (dry gas): 0.597		Gravity (liquid hydrocarbons) (Deg. API):		
Gas-Liquid Hydro Ratio (CF/Bbl):		Gravity (mixture): Gmix= 0.597		
Avg. shut in temp. (°F): 415.0		Bottom hole temp. and depth: 451.0 °F@ 19846.0 FT		
Run No.	Time of Run (Min.)	Choke Size (in.)	Wellhead Pressure (PSIA)	Wellhead Flow Temp (°F )
SHUT-IN	1440	0	15117	379.0
1	4320	15/64	10672	84.0

CASING RECORD											
		Casing	Hole	Setting	Multi -	Multi -		Cement	Slurry	Top of	TOC
Row	Type of	Size	Size	Depth	Stage Tool	Stage Shoe	Cement	Amount	Volume	Cement	Determined
	Casing	(in.)	(in.)	(ft.)	Depth (ft.)	Depth (ft.)	Class	(sacks)	(cu. ft.)	(ft.)	By
2	Intermediate	9 5/8	12 1/4	12994			CLASS H	1510	2883.0	6000	Calculation
3	Conventional Production	5 1/2	8 1/2	12173			PREM PLUS H	1264	1820.0	11000	Calculation
1	Surface	13 3/8	17 1/2	4296			TYPE 1	2440	4445.0	SURF ACE	Circulated to Surface

LINER RECORD									
Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	7 5/8	8 1/2	12598	14730	CLASS H	118	170.0	1100 0	Calculation

TUBING RECORD			
Row	Size (in.)	Depth Size (ft.)	Packer Depth (ft.)/Type
1	2 7/8	12164	12154 / BRANTON XXX

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 15915	23223

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.				
Was hydraulic fracturing treatment performed?		Yes		
Is well equipped with a downhole actuation sleeve?		No		
If yes, actuation pressure (PSIG):				
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		13800		
Actual maximum pressure (PSIG) during hydraulic fracturing:		13463		
Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)?		Yes		
Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)	
1	Fracture	480490 BBLS FLUIDS; 378200# PROPPANT SAND	15915.0	23223.0
2	Other	SET WHIPSTOCK ASSY MILL WINDOW	12678.0	12902.0
3	Other	SET 100 SXS OF CLASS H CEMENT (PLUG I)	12896.0	12996.0
4	Other	SET 450 SXS OF CLASS H CEMENT (PLUG II)	9251.0	9751.0

FORMATION RECORD						
	<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
	NACATOCH	Yes	3920.0	3920.0	Yes	
	GLEN ROSE	Yes	7537.0	7554.0	Yes	
	PETTET	Yes	9894.0	9911.0	Yes	
	TRAVIS PEAK	Yes	10814.0	10831.0	Yes	
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?						No
Is the completion being downhole commingled (SWR 10)?						No

REMARKS

RRC REMARKS
<p><b>PUBLIC COMMENTS:</b></p>
<p><b>CASING RECORD :</b></p>
<p><b>TUBING RECORD:</b></p>
<p><b>PRODUCING/INJECTION/DISPOSAL INTERVAL :</b></p>
<p><b>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</b></p>
<p><b>GAS MEASUREMENT DATE REMARK:</b></p>

OPERATOR'S CERTIFICATION	
<b>Printed Name:</b> Anita Curtis	<b>Title:</b> Regulatory Specialist
<b>Telephone No.:</b> (281) 892-5782	<b>Date Certified:</b> 02/13/2018