



RAILROAD COMMISSION OF TEXAS

Form G-1

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

Status: Submitted
Date: 05/03/2018
Tracking No.: 187944

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.: 42-005-30415		County: ANGELINA	
Well No.: 1H		RRC District No.: 06	
Lease Name: GASOSAURUS GAS UNIT		Field Name: CARTHAGE (HAYNESVILLE SHALE)	
RRC Gas ID No.:		Field No.: 16032300	
Location: Section: ,Block: , Survey: CRAFTON, J R, Abstract: 149			
Latitude:		Longitude:	
This well is located 7.3 miles in a NE direction from LUFKIN, 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: 02/15/2018	
Type of Permit		Date	Permit No.
Permit to Drill, Plug Back, or Deepen		08/14/2017	828504
Rule 37 Exception			
Fluid Injection Permit			
O&G Waste Disposal Permit			
Other:			

COMPLETION INFORMATION			
Spud date: 09/27/2017		Date of first production after rig released: 02/15/2018	
Date plug back, deepening, recompletion, or drilling operation commenced: 09/27/2017		Date plug back, deepening, recompletion, or drilling operation ended: 02/15/2018	
Number of producing wells on this lease in this field (reservoir) including this well: 1		Distance to nearest well in lease & reservoir (ft.): 0.0	
Total number of acres in lease: 960.00		Elevation (ft.): 337 GL	
Total depth TVD (ft.): 15940		Total depth MD (ft.): 23477	
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): 462.0	
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	
		99.0 Feet from the South Line and	
		1331.0 Feet from the West Line of the	
GASOSAURUS 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.): 1850.0	Date: 08/21/2017
SWR 13 Exception	Depth (ft.): 4350.0	

GAS MEASUREMENT DATA										
Date of test: 02/23/2018					Gas measurement method(s):					
Gas production during test (MCF): 30624					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	4.026	2.000	26235.75	769.0	176.2	68.0	0.9924	1.0067	1.058	10208.0

FIELD DATA AND PRESSURE CALCULATIONS				
Gravity (dry gas): 0.592			Gravity (liquid hydrocarbons) (Deg. API):	
Gas-Liquid Hydro Ratio (CF/Bbl):			Gravity (mixture): Gmix= 0.592	
Avg. shut in temp. (°F): 70.0			Bottom hole temp. and depth: 74.0 °F@ 0.0 FT	
Run No.	Time of Run (Min.)	Choke Size (in.)	Wellhead Pressure (PSIA)	Wellhead Flow Temp (°F)
SHUT-IN	1440	0	15042	65.0
1	4320	14/64	11793	69.0

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
3	Conventional Production	5 1/2	8 1/2	23449			H	2440	3505.0	11000	Calculation
2	Intermediate	9 5/8	10 3/4	14964			H	1301	2594.0	6000	Circulated to Surface
1	Surface	13 3/8	17 1/2	4312			TYPE 1	2378	4449.0	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
N/A									

TUBING RECORD			
Row	Size (in.)	Depth	Size (ft.)
1	2 7/8	15378	
		15300 / BRANTON 10K PERM PKR	

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 15237	23080

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.			
Was hydraulic fracturing treatment performed?		Yes	
Is well equipped with a downhole actuation sleeve?		Yes	
If yes, actuation pressure (PSIG):		11310.0	
Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:		13618	
Actual maximum pressure (PSIG) during hydraulic fracturing:		13600	
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	121180# OF PLANED; 180000# WHITE SAND; 67074 BBLS FLUIDS	15237.0 23080.0

FORMATION RECORD					
Formations	Encountered	Depth TVD (ft.)	Depth MD (ft.)	Is formation isolated?	Remarks
NACATOCH	Yes	6340.0	6418.0	Yes	
GLEN ROSE	Yes	7688.0	7766.0	Yes	
PETTET	Yes	10044.0	10123.0	Yes	
TRAVIS PEAK	Yes	10936.0	11015.0	Yes	
HAYNESVILLE SHALE	Yes	14828.0	14908.0	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>PUBLIC COMMENTS:</p>
<p>CASING RECORD :</p>
<p>TUBING RECORD:</p>
<p>PRODUCING/INJECTION/DISPOSAL INTERVAL :</p>
<p>ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :</p>
<p>GAS MEASUREMENT DATE REMARK:</p>

OPERATOR'S CERTIFICATION	
Printed Name: Anita Curtis	Title: Regulatory Specialist
Telephone No.: (281) 892-5782	Date Certified: 05/03/2018