



RAILROAD COMMISSION OF TEXAS

Form G-1

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

Status: Submitted
Date: 08/20/2018
Tracking No.: 195530

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.: 42-005-30416	County: ANGELINA
Well No.: 1H	RRC District No.: 06
Lease Name: ROCKIES GAS UNIT	Field Name: CARTHAGE (HAYNESVILLE SHALE)
RRC Gas ID No.:	Field No.: 16032300
Location: Section: ,Block: , Survey: ODELL, S, Abstract: 494	
Latitude:	Longitude:
This well is located 12.6 miles in a E 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: 05/24/2018	
Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen Rule 37 Exception	11/15/2017	830880
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION			
Spud date: 12/19/2017	Date of first production after rig released: 05/24/2018		
Date plug back, deepening, recompletion, or drilling operation commenced: 12/19/2017	Date plug back, deepening, recompletion, or drilling operation ended: 03/23/2018		
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: 1055.78	Elevation (ft.): 201 RKB		
Total depth TVD (ft.): 16478	Total depth MD (ft.): 23765		
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): 334.0		
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		
	339.0 Feet from the NW Line and		
	402.0 Feet from the NE Line of the		
	ROCKIES 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.): 1650.0	Date: 11/20/2017
SWR 13 Exception	Depth (ft.): 5000.0	

GAS MEASUREMENT DATA										
Date of test: 05/28/2018					Gas measurement method(s):					
Gas production during test (MCF): 29877					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	2.0	26235.75	917.0	149.0	91.0	0.9715	0.9970	1.060	9959.0

FIELD DATA AND PRESSURE CALCULATIONS				
Gravity (dry gas): 0.604		Gravity (liquid hydrocarbons) (Deg. API):		
Gas-Liquid Hydro Ratio (CF/Bbl):		Gravity (mixture): Gmix= 0.604		
Avg. shut in temp. (°F): 271.0		Bottom hole temp. and depth: 453.0 °F@ 19926.0 FT		
Run No.	Time of Run (Min.)	Choke Size (in.)	Wellhead Pressure (PSIA)	Wellhead Flow Temp (°F)
SHUT-IN	1440	0	13262	89.0
1	4320	13/64	12622	91.0

CASING RECORD										
Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Tool Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	TOC Determined By
1	Surface	13 3/8	17 1/2	5011			A	2140	4225.0	SURF ACE Circulated to Surface
2	Intermediate	9 5/8	10 5/8	15480			H	1553	2561.0	10000 Calculation
3	Conventional Production	5 1/2	8 1/2	23735			H	2140	3059.0	13000 Calculation

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 3/8	15595	
Packer Depth (ft.)/Type 15570 / 5 1/2 23, BTPP 10K PKR			

PRODUCING/INJECTION/DISPOSAL INTERVAL			
Row	Open hole?	From (ft.)	To (ft.)
1	No	L1 16256	23572

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:		14000			
		Actual maximum pressure (PSIG) during hydraulic fracturing: 13651			
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	20,284,614.0 GAL TOTAL FLUID PUMPED & 28,498,885 LBM TOTAL PROPPANT USED		16256.0	23572.0
2	Cast Iron Bridge Plug	242 SKS CLASS H		15480.0	15510.0
3	Cast Iron Bridge Plug	315.5 SKS CLASS H		15615.0	16311.0

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	No			No	DID NOT ENCOUNTER
	GLEN ROSE	Yes	7795.0	7864.0	Yes	
	PETTET	Yes	10147.0	10216.0	Yes	
	TRAVIS PEAK	Yes	11002.0	11071.0	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: Monika Craig	Title: Regulatory Analyst
Telephone No.: (281) 810-6186	Date Certified: 08/07/2018