

## RAILROAD COMMISSION OF TEXAS

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Tracking No.: 13891

Status: Submitted

Oil and Gas Division

API No. 42- 405-30359

7. RRC District No.

06

8. RRC Gas ID No.

Gas Well Back Pressure Test,  
Completion or Recompletion Report, and Log

1. FIELD NAME (as per RRC Records or Wildcat) <b>CARTHAGE (HAYNESVILLE SHALE)</b>		2. LEASE NAME <b>CLARK</b>		9. Well No. <b>1H</b>	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) <b>SM ENERGY COMPANY</b>			RRC Operator No. <b>788997</b>		10. County of well site <b>SAN AUGUSTINE</b>
4. ADDRESS <b>777 N ELDRIDGE PARKWAY STE 1000 HOUSTON, TX 77079-0000</b>					11. Purpose of filing Initial Potential <input checked="" type="checkbox"/> Retest <input type="checkbox"/> Reclass <input type="checkbox"/> Well record only (Explain in remarks) <input type="checkbox"/>
5. Location (Section, Block, and Survey) <b>BITTICK, J, A-55</b>		5b. Distance and direction to nearest town in this county. <b>SAN AUGUSTINE</b>			
6. If operator has changed within last 60 days, name former operator					
12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. <b>FIELD &amp; RESERVOIR</b> <b>N/A</b>				GAS ID or OIL LEASE #	Oil-0 Gas-G
13. Pipe Line Connection <b>TPF II EAST TEXAS GATHERING, LLC</b>					
14. Completion or recompletion date <b>11/30/2010</b>		15. Any condensate on hand at time of workover or recompletion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		16. Type of Electric or other Log Run. <b>Gamma Ray (MWD)</b>	

Section I GAS MEASUREMENT DATA										
Date of Test <b>12/05/2010</b>		Gas Measurement Method (Check One) Orifice Meter <input checked="" type="checkbox"/> Flange Taps <input type="checkbox"/> Pipe Taps <input type="checkbox"/> Positive Choke <input type="checkbox"/> Orifice Vent Meter <input type="checkbox"/> Pitot Tube <input type="checkbox"/> Critical-flow Prover <input type="checkbox"/>						Gas produced during test <b>33320</b> MCF		
Run Size	Line Size	Orif. or Choke Size	24 hr Coeff. Orif. or Choke	Static Pm or Choke Press	Diff h <sub>w</sub>	Flow Temp. ° F	Temp. Factor F <sub>tf</sub>	Gravity Factor F <sub>g</sub>	Compress Factor F <sub>pv</sub>	Volume MCF/DAY
1	4.026	2.375	38372.89	970.0	114.0	82.0	0.9795	1.011	0.8290409	10476.1
2										
3										
4										

Section II FIELD DATA AND PRESSURE CALCULATIONS													
Gravity (Dry Gas) <b>0.587</b>		Gravity Liquid Hydrocarbon <b>54.0</b> Deg. API		Gas-Liquid Hydro Ratio <b>104761029</b> CF/Bbl		Gravity of Mixture $G_{mix} = 0.587$		Avg. Shut-in Temp. <b>200.0</b> ° F		Bottom Hole Temp. <b>330.0</b> ° F @ <b>13300.0</b> (Depth)			
$D_{eff}^{8/3} =$		$\sqrt{T_f} = \sqrt{\quad} =$		$\sqrt{GL} = \sqrt{\quad} =$									
$C = \frac{1118x(D_{eff})^{8/3}}{\sqrt{T}} =$				$\frac{\sqrt{GL}}{C} =$									
Run No.	Time of Run Min	Choke Size	Wellhead Press. PSIA P <sub>w</sub>	Wellhead Flow Temp ° F	P <sub>w</sub> <sup>2</sup> (Thousands)	R	R <sup>2</sup> (Thousands)	P <sub>1</sub>	P <sub>w</sub> / P <sub>1</sub>				
Shut-in	30	18	9500	70.0									
1	4320	18	8300	82.0									
2													
3													
4													
Run No.	F	K	$S = \frac{1}{Z}$	E <sup>ks</sup>	P <sub>f</sub> and P <sub>s</sub>	P <sub>f</sub> <sup>2</sup> and P <sub>s</sub> <sup>2</sup> (Thousands)	P <sub>f</sub> <sup>2</sup> - P <sub>s</sub> <sup>2</sup> (Thousands)	Angle of Slope					
Shut-in								θ .....					
1								n .....					
2								Absolute Open Flow					
3								..... MCF/DAY					
4													

WELL TESTERS CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I conducted or supervised this test and that data and facts shown in Sections I and II above are true, correct, and complete, to the best of my knowledge. Bottomhole temperature and the diameter and length of flow string were furnished by the operator of the well.

SM ENERGY COMPANY(788997)

Signature: Well Tester

Name of Company

RRC Representative

OPERATORS CERTIFICATION: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that I or prepared supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

**SM ENERGY COMPANY**  
Mary Harris

Sr. Engineering  
Technician

03/14/2011

(318) 226-5520

Signature: Operator's representative

Title

Date

Tel:

A/C Number

SECTION III										DATA ON WELL COMPLETION AND LOG (Not Required on Retest)									
17. Type of Completion New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>										18. Permit to Drill, Plug Back or Deepen DATE <b>06/29/2010</b> PERMIT NO. <b>698219</b> Rule 37 Exception CASE NO. <b>0266417</b> Water Injection Permit PERMIT NO. Salt Water Disposal Permit PERMIT NO. Other PERMIT NO.									
19. Notice of Intention to Drill this well was filed in Name of <b>ST. MARY LAND &amp; EXPLORATION CO.</b>																			
20. Number of producing wells on this lease in this field (reservoir) including this well <b>1</b>					21. Total number of acres in this lease <b>691.41</b>														
22. Date Plug Back, Deepening, Workover or Drilling Operations: <b>07/30/2010</b>		Commenced <b>07/30/2010</b>		Completed <b>09/19/2010</b>		23. Distance to nearest well, Same Lease & Reservoir <b>0.0</b>													
24. Location of well, relative to nearest lease boundaries <b>516.0</b> Feet From <b>NW</b> Line and <b>253.0</b> Feet from <b>NE</b> Line of the <b>CLARK</b> Lease																			
25. Elevation (DF. RKB, RT. GR ETC.) <b>366</b> <b>GL</b>										26. Was directional survey made other than inclination (Form W-12)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
27. Top of Pay <b>13275 MD:13800</b>		28. Total Depth <b>13332 MD:19220</b>		29. P. B. Depth		30. Surface Casing Determined by Field Rules <input checked="" type="checkbox"/>		Recommendation of T.D.W.R. <input checked="" type="checkbox"/>		Dt. of Letter <b>06/29/2010</b>		Dt. of Letter		Railroad Commission (Special) <input type="checkbox"/>					
31. Is well multiple completion? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																			
32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. <b>FIELD &amp; RESERVOIR</b>										GAS ID or OIL LEASE #		Oil-0 Gas-G		Well #					
<b>N/A</b>																			
33. Intervals Drilled by:		Rotary Tools <input checked="" type="checkbox"/>		Cable Tools		34. Name of Drilling Contractor <b>SCANDRILL, INC</b>								35. Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
36. CASING RECORD (Report All Strings Set in Well)																			
CASING SIZE	WT #/FT.	DEPTH SET	MULTISTAGE TOOL DEPTH	TYPE & AMOUNT CEMENT (sacks)	HOLE SIZE	TOP OF CEMENT	SLURRY VOL. cu. ft.												
10 3/4	45.5	2185		EXTENDACEM 1610	14 3/4	SURFACE	2782.0												
7 5/8	29.7	12231		H 470	9 7/8	12197	764.3												
5	23.2	19220		THERMANCEN 750	6 3/4	11200	1072.5												
37. LINER RECORD																			
Size		Top		Bottom		Sacks Cement		Screen											
38. TUBING RECORD																			
Size		Depth Set		Packer Set		From L1 13800				To 18850 OH									
N/A						From				To									
						From				To									
						From				To									
40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.																			
Depth Interval						Amount and Kind of Material Used													
13800.0		18850.0		FRAC W/ 5,788,928 PROPPANT															
41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)																			
Formations		Depth		Formations		Depth													
BASE MIDWAY		3128.0 MD: 3128.0		HV GR (RABBIT EARS)		13245.0 MD: 13513.0													
TOP JAMES		7439.0 MD: 7440.0																	
TOP BOSSIER SHALE		12795.0 MD: 12798.0																	
REMARKS: N/A																			