

## RAILROAD COMMISSION OF TEXAS

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Oil and Gas Division

API No. 42- 005-30394

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>SARGE UNIT</b>		9. Well No. <b>1HR</b>	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) <b>EOG RESOURCES, INC.</b>			RRC Operator No. <b>253162</b>		10. County of well site <b>ANGELINA</b>
4. ADDRESS <b>ATTN PRODUCTION ACCTNG 6101 S BROADWAY STE 200 TYLER, TX 75703-0000</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>ANDERSON, W , A-58</b>			5b. Distance and direction to nearest town in this county. <b>6.6 MILES NORTH OF HUNTINGTON</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>				GAS ID or OIL LEASE #	Oil-0 Gas-G
N/A					Well #

13. Pipe Line Connection <b>TPF II</b>		14. Completion or recompletion date <b>03/12/2012</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>Neutron/Density logs (combo of tools)</b>	
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Section I GAS MEASUREMENT DATA										
Date of Test <b>07/25/2012</b>		Gas Measurement Method (Check One) Orifice Meter <input checked="" type="checkbox"/> Flange Taps <input checked="" type="checkbox"/> <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>48570</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	2.500	43217.4	1085.0	123.1	102.0	0.9619	1.0025	1.063	16190.0
2										
3										
4										

Section II FIELD DATA AND PRESSURE CALCULATIONS											
Gravity (Dry Gas) <b>0.597</b>		Gravity Liquid Hydrocarbon Deg. API		Gas-Liquid Hydro Ratio CF/Bbl		Gravity of Mixture G <sub>mix</sub> = <b>0.597</b>		Avg. Shut-in Temp. <b>255.0</b> ° F		Bottom Hole Temp. <b>416.0</b> ° F @ <b>18011.0</b> (Depth)	
$D_{eff}^{8/3} =$		$\sqrt{T_f} = \sqrt{\quad} =$		$\sqrt{GL} = \sqrt{\quad} =$							
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} =$		$=$		$\frac{\sqrt{GL}}{C} =$		$=$					
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			12015	93.0							
1	4320	19/64	9915	132.0							
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 θ ..... n ..... Absolute Open Flow ..... MCF/DAY			
Shut-in											
1											
2											
3											
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.

BOB BURNS

SPL, INC.

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.

EOG RESOURCES, INC.

Debra Gay

Signature: Operator's representative

Title

07/30/2012

Date

Tel: (903) 509-7115

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 10/12/2011 PERMIT NO. 726063 Rule 37 Exception CASE NO.				
19. Notice of Intention to Drill this well was filed in Name of <b>EOG RESOURCES, INC.</b>					Water Injection Permit PERMIT NO. Salt Water Disposal Permit PERMIT NO. Other PERMIT NO.				
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>460.0</b>						
22. Date Plug Back, Deepening, Workover or Drilling Operations: <b>10/15/2011</b>		Commenced <b>10/15/2011</b>		Completed <b>01/08/2012</b>		23. Distance to nearest well, Same Lease & Reservoir <b>0.0</b>			
24. Location of well, relative to nearest lease boundaries <b>251.0</b> Feet From <b>North</b> Line and <b>909.0</b> Feet from <b>East</b> Line of the <b>SARGE UNIT</b> Lease									
25. Elevation (DF, RKB, RT, GR ETC.) <b>226</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>14480 MD:14480</b>		28. Total Depth <b>15828 MD:21072</b>		29. P. B. Depth <b>MD:21036</b>		30. Surface Casing Determined by Field Rules <input type="checkbox"/> Recommendation of T.D.W.R. <input checked="" type="checkbox"/> Railroad Commission (Special) <input checked="" type="checkbox"/>		Dt. of Letter <b>10/25/2011</b> Dt. of Letter <b>10/25/2011</b>	
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>NABORS</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.		
13 3/8	54.5	4264		HALCEM 3800	17 1/2	SURFACE	5814.0		
7 5/8	46.1	14681		HALCEM KB/THERMACEM 3210	9 7/8	9500	4789.0		
5	23.2	21072		SHALECEM 730	6 1/2	9000	1095.0		
37. LINER RECORD									
Size		Top		Bottom		Sacks Cement		Screen	
38. TUBING RECORD									
Size		Depth Set		Packer Set		From L1 15931		To 21031	
N/A						From		To	
						From		To	
						From		To	
40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.									
Depth Interval				Amount and Kind of Material Used					
15931.0		21031.0		FRAC WITH 3,746,080#S 100 MESH, 5,051,160#S 40/70 PRC, 1,010,760#S 40/70 CRC					
41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)									
Formations		Depth		Formations		Depth			
WILCOX		4145.0 MD: 4145.0		JAMES LIME		9615.0 MD: 9615.0			
AUSTIN CHALK		6255.0 MD: 6255.0		TRAVIS PEAK		10625.0 MD: 10625.0			
PALUXY		7285.0 MD: 7285.0		BASE COTTON VALLEY "B" LIME		14195.0 MD: 14195.0			
MOORINGSPO		8215.0 MD: 8215.0		HAYNESVILLE		14480.0 MD: 14480.0			
RODESSA		9115.0 MD: 9115.0							
REMARKS: CEMENT PLUGS SET IN 6-1/2" CASING. SET @ 15755,15130,15116,15221. SEE ATTACHED W15'S FOR PLUGGING INFO.									

