

## RAILROAD COMMISSION OF TEXAS

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Tracking No.: 73681

Status: Submitted

Oil and Gas Division

API No. 42- 405-30500

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>PHELPS UNIT</b>		9. Well No. <b>1H</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>SAN AUGUSTINE</b>
4. ADDRESS <b>ATTN PRODUCTION ACCTNG 6101 S BROADWAY STE 200 TYLER, TX 75703-0000</b>					
5. Location (Section, Block, and Survey) <b>CARTWRIGHT, H, A-80</b>			5b. Distance and direction to nearest town in this county. <b>4.6 MILES SW FROM SAN AUGUSTINE</b>		
6. If operator has changed within last 60 days, name former operator					
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"/>					
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
<b>N/A</b>					Well #

13. Pipe Line Connection <b>ENBRIDGE</b>		14. Completion or recompletion date <b>03/29/2013</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>PLATFORM EXPRESS</b>	
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Section I GAS MEASUREMENT DATA										
Date of Test <b>05/03/2013</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>42867</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	3.000	68380.82	914.0	43.75	80.2	0.9811	1.001	1.064	14289.0
2										
3										
4										

Section II FIELD DATA AND PRESSURE CALCULATIONS													
Gravity (Dry Gas) <b>0.599</b>		Gravity Liquid Hydrocarbon Deg. API		Gas-Liquid Hydro Ratio CF/Bbl		Gravity of Mixture G <sub>mix</sub> = <b>0.599</b>		Avg. Shut-in Temp. <b>229.0</b> ° F		Bottom Hole Temp. <b>390.0</b> ° F @ <b>16647.0</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	1440		10515	68.0									
1	4320	19/64	9230	118.0									
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.

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

05/10/2013

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 <b>03/29/2013</b> PERMIT NO. <b>741708</b> Rule 37 Exception <span style="float: right;">CASE NO.</span>							
19. Notice of Intention to Drill this well was filed in Name of <b>EOG RESOURCES, INC.</b>						Water Injection Permit <span style="float: right;">PERMIT NO.</span> Salt Water Disposal Permit <span style="float: right;">PERMIT NO.</span> Other <span style="float: right;">PERMIT NO.</span>							
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>885.37</b>										
22. Date Plug Back, Deepening, Workover or Drilling Operations: <b>10/31/2012</b>		Commenced <b>12/12/2012</b>		Completed <b>0.0</b>		23. Distance to nearest well, Same Lease & Reservoir <b>0.0</b>							
24. Location of well, relative to nearest lease boundaries <b>660.0</b> Feet From <b>West</b> Line and <b>218.0</b> Feet from <b>North</b> Line of the <b>PHELPS UNIT</b> Lease													
25. Elevation (DF, RKB, RT, GR ETC.) <b>349</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>12750 MD:12750</b>		28. Total Depth <b>13602 MD:19468</b>		29. P. B. Depth <b>MD:19421</b>		30. Surface Casing Determined by Field Rules <input checked="" type="checkbox"/> Recommendation of T.D.W.R. <input checked="" type="checkbox"/> Railroad Commission (Special) <input type="checkbox"/>		Dt. of Letter <b>06/11/2012</b> Dt. of Letter					
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					
<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.						
10 3/4	40.5	2887		PREM CLASS H 1690	13 1/2	SURFACE	2666.0						
7 5/8	46.1	12842		H 1905	9 7/8	4600	2803.0						
5 1/2	23.0	12539		H 125	6 1/2	10500	217.0						
37. LINER RECORD													
Size		Top		Bottom		Sacks Cement		Screen					
5		12539		19468		550		100					
38. TUBING RECORD													
Size		Depth Set		Packer Set		39. Producing Interval (this completion) Indicate depth of perforation or open hole							
2 3/8		12900		12900		From L1 13930		To 19364					
						From		To					
						From		To					
						From		To					
40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.													
Depth Interval				Amount and Kind of Material Used									
13930.0		19364.0		FRAC W/9,798,780#S 100 MESH, 4,280,740#S 40/70 WHITE, 1,247,640#S 30/70 CRC									
41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)													
Formations		Depth		Formations		Depth							
SARATOGA		2995.0 MD: 2995.0		PETTIT		8427.0 MD: 8427.0							
EAGLEFORD		4988.0 MD: 4988.0		TRAVIS PEAK		9360.0 MD: 9360.0							
GLEN ROSE		5950.0 MD: 5950.0		CV "B" LIME		11690.0 MD: 11690.0							
JAMES LIME		8120.0 MD: 8120.0		HAYNESVILLE SHALE		12750.0 MD: 12750.0							
REMARKS: SEE ATTACHED LIST FOR COMPLETE PERF AND FRAC INFO.													

