

RAILROAD COMMISSION OF TEXAS

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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) CARTHAGE (HAYNESVILLE SHALE)		2. LEASE NAME PHELPS UNIT		9. Well No. 1H	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) EOG RESOURCES, INC.			RRC Operator No. 253162		10. County of well site SAN AUGUSTINE
4. ADDRESS ATTN PRODUCTION ACCTNG 6101 S BROADWAY STE 200 TYLER, TX 75703-0000					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) CARTWRIGHT, H, A-80			5b. Distance and direction to nearest town in this county. 4.6 MILES SW FROM SAN AUGUSTINE		
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. FIELD & RESERVOIR				GAS ID or OIL LEASE #	Oil-0 Gas-G
N/A					Well #

13. Pipe Line Connection ENBRIDGE		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. PLATFORM EXPRESS	
14. Completion or recompletion date 03/29/2013					

Section I GAS MEASUREMENT DATA											
Date of Test 05/03/2013		Gas Measurement Method (Check One) Orifice Meter <input checked="" type="checkbox"/> <input 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 42867 MCF			
Run Size	Line Size	Orif. or Choke Size	24 hr Coeff. Orif. or Choke	Static Pm or Choke Press	Diff h _w	Flow Temp. ° F	Temp. Factor F _{tf}	Gravity Factor F _g	Compress Factor F _{pv}	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)	Gravity Liquid Hydrocarbon	Gas-Liquid Hydro Ratio	Gravity of Mixture	Avg. Shut-in Temp.	Bottom Hole Temp.
0.599	Deg. API	CF/Bbl	$G_{mix} = 0.599$	229.0 ° F	390.0 ° F @ 16647.0 (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 _w	Wellhead Flow Temp ° F	P _w ² (Thousands)	R	R ² (Thousands)	P ₁	P _w / P ₁
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 ^{ks}	P _f and P _s	P _f ² and P _s ² (Thousands)	P _f ² - P _s ² (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

Signature: Well Tester

SPL, INC.

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				18. Permit to Drill, Plug Back or Deepen		DATE	PERMIT NO.
New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/>				Rule 37 Exception		03/29/2013	741708
19. Notice of Intention to Drill this well was filed in Name of EOG RESOURCES, INC.				Water Injection Permit		PERMIT NO.	
20. Number of producing wells on this lease in this field (reservoir) including this well 1		21. Total number of acres in this lease 885.37		Salt Water Disposal Permit		PERMIT NO.	
22. Date Plug Back, Deepening, Workover or Drilling Operations:		Commenced	Completed	23. Distance to nearest well, Same Lease & Reservoir		Other	
		10/31/2012	12/12/2012	0.0			

24. Location of well, relative to nearest lease boundaries		660.0	Feet From	West	Line and	218.0	Feet from
		North	Line of the	PHELPS UNIT		Lease	

25. Elevation (DF, RKB, RT, GR ETC.) 349 GL		26. Was directional survey made other than inclination (Form W-12)?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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27. Top of Pay 12750 MD:12750	28. Total Depth 13602 MD:19468	29. P. B. Depth MD:19421	30. Surface Casing Determined by	Field Rules <input checked="" type="checkbox"/>	Recommendation of T.D.W.R. <input checked="" type="checkbox"/>	Dt. of Letter 06/11/2012
				Railroad Commission (Special) <input type="checkbox"/>	Dt. of Letter	

31. Is well multiple completion? Yes No

32. If multiple completion, list all reservoir names (completions in this well) and Oil Lease or Gas ID No. FIELD & RESERVOIR		GAS ID or OIL LEASE #	Oil-0 Gas-G	Well #
N/A				

33. Intervals Drilled by:	Rotary Tools <input checked="" type="checkbox"/>	Cable Tools <input type="checkbox"/>	34. Name of Drilling Contractor NABORS	35. Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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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			39. Producing Interval (this completion) Indicate depth of perforation or open hole	
Size	Depth Set	Packer Set	From	To
2 3/8	12900	12900	L1 13930	19364
			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.

