

RAILROAD COMMISSION OF TEXAS

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Oil and Gas Division

API No. 42- 405-30496

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 CHINABERRY 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					
5. Location (Section, Block, and Survey) MOSS, J , A-189			5b. Distance and direction to nearest town in this county. 5.3 MILES SW FROM SAN AUGUSTINE		
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. FIELD & RESERVOIR				GAS ID or OIL LEASE #	
N/A					
13. Pipe Line Connection ENBRIDGE				Oil-0 Gas-G	
				Well #	

14. Completion or recompletion date 05/16/2013		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. Gamma Ray (MWD)	
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Section I GAS MEASUREMENT DATA										
Date of Test 05/20/2013		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 35817 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	4.032	2.500	43217.4	1096.0	67.26	110.0	0.9551	1.0069	1.058	11939.0
2										
3										
4										

Section II FIELD DATA AND PRESSURE CALCULATIONS											
Gravity (Dry Gas) 0.592		Gravity Liquid Hydrocarbon Deg. API		Gas-Liquid Hydro Ratio CF/Bbl		Gravity of Mixture G _{mix} = 0.592		Avg. Shut-in Temp. 242.0 ° F		Bottom Hole Temp. 400.0 ° F @ 17141.0 (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		9515	83.0							
1	4320	18/64	9012	142.0							
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.

TOMMY LAWHORN

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

06/14/2013

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 05/23/2012 PERMIT NO. 740653 Rule 37 Exception CASE NO. _____									
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 954.6522					Salt Water Disposal Permit PERMIT NO. _____									
22. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced 02/22/2013 Completed 03/27/2013					23. Distance to nearest well, Same Lease & Reservoir 0.0					Other PERMIT NO. _____									
24. Location of well, relative to nearest lease boundaries 1598.0 Feet From SW Line and 3935.0 Feet from East Line of the CHINABERRY UNIT Lease																			
25. Elevation (DF. RKB, RT. GR ETC.) 321 GL										26. Was directional survey made other than inclination (Form W-12)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No									
27. Top of Pay 12756 MD:12756		28. Total Depth 13906 MD:19909		29. P. B. Depth MD:19888		30. Surface Casing Determined by Field Rules <input checked="" type="checkbox"/>		Recommendation of T.D.W.R. <input checked="" type="checkbox"/>		Dt. of Letter 05/22/2012		Railroad Commission (Special) <input type="checkbox"/>		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. 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		34. Name of Drilling Contractor NABORS										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	2865		HALCEM KB V/HALCEM KB I 1410	13 1/2	SURFACE	2134.8												
7 5/8	39.0	12770		HALECEM KB VI/HALAD-23 2300	9 7/8	4588	3425.0												
5	23.2	19903		EXPANDACEM KB I 770	6 1/2	9100	1147.0												
37. LINER RECORD																			
Size		Top		Bottom		Sacks Cement		Screen											
38. TUBING RECORD																			
Size		Depth Set		Packer Set		From L1 14212				To 19595									
2 3/8		13256		13256		From				To									
						From				To									
						From				To									
39. Producing Interval (this completion) Indicate depth of perforation or open hole																			
40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.																			
Depth Interval				Amount and Kind of Material Used															
14212.0				19595.0				FRAC W/5,432,040#S 100 MESH, 4,511,610#S 40/70 WHITE, 951,360#S 30/70 CRC											
41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)																			
Formations		Depth		Formations		Depth													
WILCOX		2599.0 MD: 2599.0		PETTIT		8127.0 MD: 8127.0													
EAGLEFORD/BAC		4988.0 MD: 4988.0		TRAVIS PEAK		9060.0 MD: 9060.0													
GLEN ROSE		5757.0 MD: 5757.0		COTTON VALLEY "B" LIME		12507.0 MD: 12507.0													
JAMES LIME		7820.0 MD: 7820.0		HAYNESVILLE		12756.0 MD: 12756.0													
REMARKS: Off Lease = true; SEE ATTACHED LIST OF PERFS AND FRACS.																			

