

RAILROAD COMMISSION OF TEXAS

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Tracking No.: 28927

Status: Submitted

Oil and Gas Division

API No. 42- 347-33178

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 LAUREN ALSTON UNIT		9. Well No. 2H	
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 NACOGDOCHES	
4. ADDRESS ATTN PRODUCTION ACCTNG 6101 S BROADWAY STE 200 TYLER, TX 75703-0000					
5. Location (Section, Block, and Survey) MORA, J M , A-827		5b. Distance and direction to nearest town in this county. 1.6 MILES NE FROM WODEN			
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 TPF II				Oil-0 Gas-G	
				Well #	

14. Completion or recompletion date 08/18/2011		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. None	
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Section I GAS MEASUREMENT DATA											
Date of Test 09/28/2011		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 1419 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	1.000	6292.88	949.0	5.66	100.0	0.9636	1.0079	1.055	473.0	
2											
3											
4											

Section II FIELD DATA AND PRESSURE CALCULATIONS											
Gravity (Dry Gas) 0.591		Gravity Liquid Hydrocarbon Deg. API		Gas-Liquid Hydro Ratio CF/Bbl		Gravity of Mixture G _{mix} = 0.591		Avg. Shut-in Temp. 245.0 ° F		Bottom Hole Temp. 390.0 ° F @ 16644.0 (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 _w	Wellhead Flow Temp ° F	P _w ² (Thousands)	R	R ² (Thousands)	P ₁	P _w / P ₁		
Shut-in			3015	100.0							
1	4320	12/64	1421	110.0							
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

10/11/2011

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 10/07/2011 PERMIT NO. 699777 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. Salt Water Disposal Permit PERMIT NO. Other PERMIT NO.														
20. Number of producing wells on this lease in this field (reservoir) including this well 2					21. Total number of acres in this lease 667.71																			
22. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced 08/02/2010		Completed 10/15/2010		23. Distance to nearest well, Same Lease & Reservoir 1992.0																				
24. Location of well, relative to nearest lease boundaries 390.0 Feet From North Line and 830.0 Feet from East Line of the LAUREN ALSTON UNIT Lease																								
25. Elevation (DF, RKB, RT, GR ETC.) 283 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 12950 MD:12950		28. Total Depth 13718 MD:19532		29. P. B. Depth MD:19485		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 checked="" type="checkbox"/>		Dt. of Letter 07/29/2010 Dt. of Letter 08/11/2010														
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.										
13 3/8		54.5		3220				MODIFIED/PREM 2700		17 1/2		475		4725.0										
7 5/8		39.0		12975		6008		HALCEM/THERMACEM 3020		9 7/8		6500		3919.0										
5		23.0		19532				SHALCEM 765		6 1/2		9000		1125.0										
37. LINER RECORD																								
Size		Top		Bottom		Sacks Cement				Screen														
38. TUBING RECORD																								
Size		Depth Set		Packer Set		39. Producing Interval (this completion) Indicate depth of perforation or open hole																		
2 3/8		13426				From L1 19211					To 19439													
						From L1 18898					To 19153													
						From L1 18582					To 18830													
						From L1 18267					To 18517													
						From L1 17951					To 18185													
						From L1 17636					To 17880													
						From L1 17320					To 17560													
						From L1 17005					To 17252													
						From L1 16689					To 16936													
						From L1 16373					To 16615													
						From L1 16058					To 16300													
						From L1 15742					To 15986													
						From L1 15427					To 15668													
						From L1 15111					To 15350													
						From L1 14796					To 15038													
						From L1 14480					To 14720													
						From L1 14165					To 14420													
						From L1 13849					To 14105													

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.		
Depth Interval		Amount and Kind of Material Used
19211.0	19439.0	FRAC W/94,480#S 100 MESH, 240,540#S 40/70 PRC, 27,740#S 30/50 CRC
18898.0	19153.0	FRAC W/114,220#S 100 MESH. 248,180#S 40/70 PRC, 53,000#S 30/50 CRC
18582.0	18830.0	FRAC W/99,520#S 100 MESH, 248,800#S 40/70 PRC, 49,500#S 30/50 CRC
18267.0	18517.0	FRAC W/99,160#S 100 MESH, 262,360#S 40/70 PRC, 51,260#S 30/50 CRC
17951.0	18185.0	FRAC W/96,380#S 100 MESH, 254,340#S 40/70 PRC, 53,480#S 30/50 CRC
17636.0	17880.0	FRAC W/107,200#S 100 MESH, 252,780#S 40/70 PRC, 51,320#S 30/50 CRC
17320.0	17560.0	FRAC W/102,700#S 100 MESH, 239,580#S 40/70 PRC, 49,400#S 30/50 CRC
17005.0	17252.0	FRAC W/97,880#S 100 MESH, 252,920#S 40/70 PRC, 56,100#S 30/50 CRC
16689.0	16936.0	FRAC W/100,080#S 100 MESH, 249,780#S 40/70 PRC, 49,100#S 30/50 CRC
16373.0	16615.0	FRAC W/98,400#S 100 MESH, 239,920#S 40/70 PRC, 55,000#S 30/50 CRC
16058.0	16300.0	FRAC W/98,100#S 100 MESH, 240,460#S 40/70 PRC,
15742.0	15986.0	FRAC W/100,320#S 100 MESH, 254,180#S 40/70 PRC, 48,700#S 30/50 CRC
15427.0	15668.0	FRAC W/107,060#S 100 MESH, 251,880#S 40/70 PRC, 53,300#S 30/50 CRC
15111.0	15350.0	FRAC W/100,520#S 100 MESH, 251,220#S 40/70 PRC, 50,880#S 30/50 CRC
14796.0	15038.0	FRAC W/101,420#S 100 MESH, 250,720#S 40/70 PRC, 50,120#S 30/50 CRC
14480.0	14720.0	FRAC W/120,740#S 100 MESH, 251,420#S 40/70 PRC, 14,960#S 30/50 CRC
14165.0	14420.0	FRAC W/100,120#S 100 MESH, 250,540#S 40/70 PRC, 73,700#S 30/50 CRC
13849.0	14105.0	FRAC W/100,120#S 100 MESH, 250,540#S 40/70 PRC, 67,440#S 30/50 CRC

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)			
Formations	Depth	Formations	Depth
SARATOGA	3990.0 MD: 3990.0	TRAVIS PEAK	9320.0 MD: 9320.0
PALUXY	6060.0 MD: 6060.0	CV "B" LIME	12670.0 MD: 12670.0
JAMES LIME	8370.0 MD: 8370.0	HAYNESVILLE	12950.0 MD: 12950.0
PETTIT	8640.0 MD: 8640.0		
REMARKS: FILED AS A RECORD ONLY IN APRIL 2011. TRACKING # 17701			
WELL IS NOW COMPLETE AND ON			
PRODUCTION.			