

RAILROAD COMMISSION OF TEXAS

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Tracking No.: 6051

Status: Submitted

Oil and Gas Division

API No. 42- 005-30388

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 S.W. HENDERSON HAY GU		9. Well No. 1H	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) GOODRICH PETROLEUM COMPANY		RRC Operator No. 314909		10. County of well site ANGELINA	
4. ADDRESS 801 LOUISIANA STREET SUITE 700 HOUSTON, TX 77002-4936					
5. Location (Section, Block, and Survey) WALKER, J, A-647		5b. Distance and direction to nearest town in this county. 14.5 NE OF LUFKIN			
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				Oil-0 Gas-G	
				Well #	

14. Completion or recompletion date 10/20/2010		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 10/22/2010		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 62995 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	4.897	3.500	69492.0	909.0	47.1	83.1	0.9785	1.3115	1.058	19633.0
2										
3										
4										

Section II FIELD DATA AND PRESSURE CALCULATIONS											
Gravity (Dry Gas) 0.581		Gravity Liquid Hydrocarbon Deg. API		Gas-Liquid Hydro Ratio CF/Bbl		Gravity of Mixture G _{mix} =		Avg. Shut-in Temp. 80.0 ° F		Bottom Hole Temp. 280.0 ° F @ 14026.0 (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			11765	80.0							
1	70	22	8922	83.0							
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.

GOODRICH PETROLEUM COMPANY(314909)

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.

GOODRICH PETROLEUM COMPANY

Vickie Frederick

Signature: Operator's representative

Sr. Reg. Analyst

Title

04/06/2011

Date

Tel: (832) 399-3145

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 04/29/2010 PERMIT NO. 695147 Rule 37 Exception CASE NO. _____ Water Injection Permit PERMIT NO. _____ Salt Water Disposal Permit PERMIT NO. _____ Other PERMIT NO. _____													
19. Notice of Intention to Drill this well was filed in Name of GOODRICH PETROLEUM COMPANY																							
20. Number of producing wells on this lease in this field (reservoir) including this well 1					21. Total number of acres in this lease 912.23																		
22. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced 06/03/2010 Completed 08/28/2010		23. Distance to nearest well, Same Lease & Reservoir 0.0																					
24. Location of well, relative to nearest lease boundaries 340.0 Feet From East Line and 350.0 Feet from South Line of the S.W. HENDERSON HAY GU Lease																							
25. Elevation (DF, RKB, RT, GR ETC.) 181 GR										26. Was directional survey made other than inclination (Form W-12)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No													
27. Top of Pay 14982 MD:19046		28. Total Depth 14953 MD:19312		29. P. B. Depth 14953 MD:19048		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 04/29/2010 Dt. of Letter 05/04/2010															
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 PRECISION																		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		45.0 55.0		3938				POZ TYPE 1/G 1769		13 1/2		SURF		3462.38									
7 5/8		33.7		13997				CLASS H 2310		9 3/4		6000		3712.0									
5 1/2		26.0		19263				CLASS H 800		6 1/2		6400		1085.0									
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		14629				14613				From L1 14982 To 19046													
										From To													
										From To													
										From To													
40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.																							
Depth Interval										Amount and Kind of Material Used													
18805.0					19046.0					TOT PROP = 356320#, TOT CLEAN FLUID = 8044 BBLS													
18485.0					18726.0					TOT PROP = 355220#, TOT CLEAN FLUID = 7250 BBLS													
18165.0					18406.0					TOT PROP = 353520#, TOT CLEAN FLUID = 7799 BBLS													
17845.0					18086.0					TOT PROP = 355960#, TOT CLEAN FLUID = 7919 BBLS													
17525.0					17766.0					TOT PROP = 356600#, TOT CLEAN FLUID = 7695 BBLS													
17205.0					17446.0					TOT PROP = 355240#, TOT CLEAN FLUID = 7389 BBLS													
16885.0					17126.0					TOT PROP = 356450#, TOT CLEAN FLUID = 7457 BBLS													
16565.0					16806.0					TOT PROP = 360380#, TOT CLEAN FLUID = 7498 BBLS													
16245.0					16486.0					TOT PROP = 353550#, TOT CLEAN FLUID = 7529 BBLS													
15925.0					16166.0					TOT PROP = 356780#, TOT CLEAN FLUID = 7493 BBLS													
15605.0					15846.0					TOT PROP = 356320#, TOT CLEAN FLUID = 7638 BBLS													
15285.0					15526.0					TOT PROP = 356140#, TOT CLEAN FLUID = 7548 BBLS													
14982.0					15206.0					TOT PROP = 354760#, TOT CLEAN FLUID = 6544 BBLS													

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)			
Formations	Depth	Formations	Depth
TOP KNOWLES	13217.0 MD: 13220.0		
TOP HAYNESVILLE	14874.0 MD: 14884.0		
TOP CVLM	15095.0 MD: 15109.0		
REMARKS: N/A			