

RAILROAD COMMISSION OF TEXAS

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Tracking No.: 34080

Status: Submitted

Oil and Gas Division

API No. 42- 403-30465

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 WEST SPOON GU SBN		9. Well No. 1H	
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) CHESAPEAKE OPERATING, INC.			RRC Operator No. 147715		10. County of well site SABINE
4. ADDRESS ATTN CHRISTIAN COMBS PO BOX 18496 OKLAHOMA CITY, OK 73154-0496					
5. Location (Section, Block, and Survey) RENFRO, D , A-181			5b. Distance and direction to nearest town in this county. 7.72 MILES SE 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 #	Oil-0 Gas-G
N/A					Well #

13. Pipe Line Connection ENBRIDGE PIPELINES (E.TX) LP					
14. Completion or recompletion date 12/15/2011			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. Gamma Ray (MWD)

Section I GAS MEASUREMENT DATA											
Date of Test 12/19/2011		Gas Measurement Method (Check One) Orifice Meter <input checked="" type="checkbox"/> Flange Taps <input checked="" 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 45549 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	2.750	54417.41	1127.0	69.0	98.0	0.965	0.942	1.099	15183.0	
2											
3											
4											

Section II FIELD DATA AND PRESSURE CALCULATIONS											
Gravity (Dry Gas) 0.616		Gravity Liquid Hydrocarbon Deg. API		Gas-Liquid Hydro Ratio CF/Bbl		Gravity of Mixture G _{mix} = 0.616		Avg. Shut-in Temp. 199.5 ° F		Bottom Hole Temp. 325.0 ° F @ 15354.0 (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	1440	22/64	8514	74.0					
1	4320	22/64	7138	194.0					
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 θ n Absolute Open Flow MCF/DAY	
Shut-in					8514.0				
1									
2									
3									
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.

MICHAEL KOCIAN

Signature: Well Tester

STUART PETROLEUM TESTERS

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.

CHESAPEAKE OPERATING, INC.

Linda Weeks

Signature: Operator's representative

Regulatory Compliance
Specialist

Title

12/27/2011

Date

(405) 935-6854

Tel:

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 05/02/2011 PERMIT NO. 715191 Rule 37 Exception CASE NO. _____									
19. Notice of Intention to Drill this well was filed in Name of CHESAPEAKE OPERATING, 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 686.97					Salt Water Disposal Permit PERMIT NO. _____									
22. Date Plug Back, Deepening, Workover or Drilling Operations: Commenced 09/09/2011 Completed 11/16/2011					23. Distance to nearest well, Same Lease & Reservoir 0.0					Other PERMIT NO. _____									
24. Location of well, relative to nearest lease boundaries 2292.0 Feet From East Line and 627.0 Feet from North Line of the WEST SPOON GU SBN Lease																			
25. Elevation (DF, RKB, RT, GR ETC.) 353 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 12527 MD:12527		28. Total Depth 13341 MD:17474		29. P. B. Depth 13341 MD:17377		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 04/28/2011		Dt. of Letter 05/10/2011							
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 NOMAC #60								35. Is Cementing Affidavit Attached? <input type="checkbox"/> Yes <input checked="" 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	61.0	2800		CLASS A 2115	17 1/2	SURFACE	3576.0												
7 5/8	29.7	12645		CLASS H 2040	9 7/8	5500	3945.6												
5 1/2	23.0	17474		CLASS H 749	6 3/4	7000	1056.09												
37. LINER RECORD																			
Size		Top		Bottom		Sacks Cement		Screen											
38. TUBING RECORD																			
Size		Depth Set		Packer Set		From L1 13342				To 17367									
2 7/8		12981		12969		From				To									
						From				To									
						From				To									
40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE. ETC.																			
Depth Interval						Amount and Kind of Material Used													
13342.0		17367.0				5426381# 40/70 WHITE SD; 3617587# 40/70 PRIME PLUS SD													
41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)																			
Formations		Depth		Formations		Depth													
JAMES LIME		7691.0 MD: 7691.0																	
COTTON VALLEY		11071.0 MD: 11071.0																	
BOSSIER		12527.0 MD: 12527.0																	
REMARKS: WELL RECORD ONLY FILED 9/16/2011 TRACKING #26734; PERF'D DETAILS ATTACHED.																			