

RAILROAD COMMISSION OF TEXAS

Oil and Gas Division

Form G-1

Rev. 4/1/83

Gas Well Back Pressure Test, Completion or Recompletion Report, and Log						API No. 42- 225-31170		7. RRC District No. * 03		
1. FIELD NAME (as per RCC Records or Wildcat) Fort Trinidad (Glen Rose, Upper)			2. LEASE NAME Byers			RECEIVED RRC OF TEXAS MAR 31 2011 O&G DIVISION HOUSTON TX		8. RRC Gas ID No.		
3. OPERATOR'S NAME (Exactly as shown on Form P-5, Organization Report) Navidad Resources, LLC			RCC Operator No. 601175					9. Well No. 1		
4. ADDRESS 218 N. College Ave. Tyler, Texas			5b. Distance and direction to nearest town in this county 9.2 miles SW of Lovelady					10. County of well site Houston		
5. Location (Section, Block, and Survey) J. Prichard, A-68			12. If workover or reclass, give former field (with reservoir) & Gas ID or oil lease no. FIELD & RESERVOIR					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"/>		
6. If operator has changed within last 60 days, name former operator			13. Pipe Line Connection yes			Oil-O Gas-G			Well #	
14. Completion or recompletion date 2/25/2011			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. N/A				

Section I GAS MEASUREMENT DATA										
Date of Test 3/21/11		Gas Measurement Method (Check One) Orifice Meter <input checked="" type="checkbox"/> Flange Taps <input type="checkbox"/> Pipe 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 production during test 2508 MCF	
Run Size	Line Size	Orif. or Choke Size	24 hr Coeff. Orif. or Choke	Static P_m or Choke Press	Diff. h_w	Flow Temp. $^{\circ}F$	Temp. Factor F_{tf}	Gravity Factor F_g	Compress Factor F_{pv}	Volume MCF/DAY
1	2	1.0	--	836	27.4	112.8				872
2										
3										
4										

Section II FIELD DATA AND PRESSURE CALCULATIONS											
Gravity (Dry Gas) .837		Gravity Liquid Hydrocarbon 42.8 Deg. API		Gas-Liquid Hydro Ratio 1820 CF/Bbl		Gravity of Mixture $G_{mix} =$		Avg. Shut-in Temp. $^{\circ}F$		Bottom Hole Temp. 270 $^{\circ}F @ 12,100$ (Depth)	
$P_{eff}^{8/3} =$		$\sqrt{T_f} = \sqrt{\quad} =$				$\sqrt{GL} = \sqrt{\quad} =$					
$C = \frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}} =$		$\sqrt{\frac{GL}{C}} =$									
Run No.	Time of Run Min.	Choke Size	Wellhead Press. P_w PSIA	Wellhead Flow Temp. $^{\circ}F$	P_w^2 (Thousands)	R	R^2 (Thousands)	P_i	P_w/P_i		
Shut-In											
1											
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 TESTER'S 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.

Signature: Well Tester

Name of Company

RRC Representative

OPERATOR'S CERTIFICATION: I declare under penalties prescribed in Sec.91.143, Texas Natural Resources Code, that I am authorized to make this report, that I prepared or supervised and directed this report, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Signature: Operator's representative

Jennifer Hamm

Title

3/29/2011

Date

Tel: 903-705-0834

A/C Number

SECTION III DATA ON WELL COMPLETION AND LOG (Not Required on Retest)							
17. Type of Completion: <div style="display: flex; justify-content: space-between;"> New Well <input checked="" type="checkbox"/> Deepening <input type="checkbox"/> Plug Back <input type="checkbox"/> Other <input type="checkbox"/> </div>					18. Permit to Drill <div style="display: flex; justify-content: space-between;"> DATE 7/09/2010 PERMIT NO. 698372 </div>		
19. Notice of Intention to Drill this well was filed in Name of Navidad Resources, LLC					Rule 37 Exception		
20. Number of producing wells on this lease in this field (reservoir) including this well 1		21. Total number of acres in this lease 697.83			Water Injection Permit		
22. Date Plug Back, Deepening Workover or Drilling Operations: 7/17/2010		Completed 10/03/2010		23. Distance to nearest well, Same Lease & Reservoir		PERMIT NO.	
24. Location of well, relative to the nearest lease boundaries of lease on which this well is located <div style="display: flex; justify-content: space-between;"> 900 Feet From NE Line and 3000 Feet From NW </div>					Salt Water Disposal Permit		
25. Elevation (DF, RKB, RT, GR, ETC.)					26. Was directional survey made other than inclination (Form W-12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
27. Top of Pay 10320		28. Total Depth		29. P.B. Depth 12395		30. Surface Casing Determined by: Field Rules <input type="checkbox"/> Recommendation of T.D.W.R. Railroad Commission (Special) <input checked="" type="checkbox"/>	
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				33. Intervals Drilled by: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
34. Name of Drilling Contractor Big E Drilling		35. Is Cementing Affidavit Attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				Dt. of Letter 6/21/2010	
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.
9.625	36	2,256		A/910	12.25	surface	1,565.5
5.5	17/23	12,400		H/865	8.75	5844'	1667

37. LINER RECORD				
Size	TOP	Bottom	Sacks Cement	Screen
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38. TUBING RECORD			39. Producing Interval (this completion) Indicate depth of perforation or open hole	
Size	Depth Set	Packer Set	From	To
2.875"	10,330'	10,320'	10345	10530
			10905	11236
			11433	11638
			11717	12108

40. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
Depth Interval	Amount and Kind of Material Used
10345-10530' 6 SPF @ 60 Deg. 18000 gal. acid, 8947 bbls water, 4400 lbs acid flakes, 36000 lbs sand	
10905-11236' 6 SPF @ 60 Deg. 26000 gal. acid, 12979 bbls water, 8800 lbs acid flakes, 44000 lbs sand	
11433-11638' 6 SPF @ 60 Deg. 28000 gal. acid, 13892 bbls water, 8800 lbs acid flakes, 40000 lbs sand	
11717-12108' 6 SPF @ 60 Deg. 32000 gal. acid, 15968 bbls water, 9900 lbs acid flakes, 80000 lbs sand	
* 12108-12324' 6 SPF @ 60 Deg. 59000 gal. acid, 29678 bbls water, 13200 lbs acid flakes, 80000 lbs sand	

41. FORMATION RECORD (LIST DEPTHS OF PRINCIPAL GEOLOGICAL MARKERS AND FORMATION TOPS)			
Formations	Depth	Formations	Depth
Austin Chalk	9225	Georgetown	10600
Woodbine	9550	Glen Rose	11660

REMARKS Please see Oil and Gas Docket 03-0263210 and allow for commingling of intervals as described in letter dated 2/03/11 from Scott Rosenquist. Also, please see letter regarding Dorsey Twidwell's ruling regarding completion in the Fort Trinidad (Glen Rose, Upper field).

RECEIVED
RRC OF TEXAS

MAR 31 2011

O&G DIVISION
HOUSTON TX